

SASKATCHEWAN WHEAT POOL

VARIETY TESTS

1962



Cover photos courtesy of:
Photo Services Division,
Saskatchewan Department of
Industry and Information,
Regina

Research Branch,
Canada Department of Agriculture,
Winnipeg.

SASKATCHEWAN WHEAT POOL

Variety Tests

WHEAT, BARLEY and FLAX

1962



Published by

SASKATCHEWAN WHEAT POOL

February, 1963



FOREWORD

BY THE PRESIDENT OF THE SASKATCHEWAN WHEAT POOL

The development of a new variety of grain—from a single head in the careful hands of the plant breeder, to full scale production in a field—is a fascinating story.

It is a story of imagination and skill, through which the trained scientist combines useful characteristics from two or more parent varieties, in the hope that they will merge in a new plant better than either of its parents. It is a story of painstaking observation and selection over a period of years, during which countless strains are discarded, and a steadily diminishing number remain. The chemist, too, plays a part in the story, searching the new variety for possible flaws in quality. Field tests serve to determine the growing conditions to which the new variety is best adapted, and the area in which it is likely to be grown. Careful seed increase programs expand the supply of seed to field scale, and finally the work-scarred hands of the farmer hold the grain for final, careful scrutiny.

On behalf of a large number of Saskatchewan farmers, I would like to express appreciation to all those who, over a long period of years, have contributed to the development of so many new grain varieties in Western Canada.

Chas. Gehlberg

Introduction

Farmers and others interested in grain production have always been concerned with methods of increasing the volume and the quality of their product. This has been particularly true in Canada where our economy is heavily dependent on the agricultural industry and where our wheat exports are so dependent on the availability of a high quality product.

For this reason it is natural that farmers should take an interest in research leading to the development of new and improved grain varieties, and that they should be eager to adopt the results of such research.

The Saskatchewan Wheat Pool has, for more than twenty-five years, carried on a program of testing and comparing grain varieties throughout the grain growing portion of this province. This booklet is a report on the testing project carried on in 1962. The test results have been arranged in such a way that the reader who is interested in a particular area or a particular crop can readily find the section dealing with it. A table of contents indicates the location of each section. An alphabetical index at the end of the booklet will assist the reader to find any individual test. For quick reference, yield information in chart form is shown on page 15 for wheat, page 17 for barley, and page 23 for flax. A brief summary of conclusions can be found on page 5.

The following table indicates the number of tests seeded in 1962 and the varieties included in each:

Project	No. of Tests	Varieties
Wheat.....	124	Thatcher, Canthatch, Cypress, Chinook, Selkirk, Pembina ¹ .
Barley.....	120	Montcalm, Keystone, Betzes, Palliser, Compans, Hannchen ² .
Flax.....	67	Redwood, Norland, Cree, Army, Marine.
Total.....	311	
1. Each wheat test contained five varieties. Thatcher, Canthatch and Cypress were tested throughout the province. Rescue and Chinook were included only in tests located in the western and southern parts of the province (Wheat Pool districts 2, 3, 4, 5, 10, 11, 12). They were replaced by Selkirk and Pembina in the remaining districts of the province.		
2. Each barley test contained five varieties. Montcalm, Keystone, Betzes and Palliser were grown throughout the province. Compans was included only in those tests located in Wheat Pool districts 2, 3, 4, 5, 10, 11, 12. In the remainder of the province it was replaced by Hannchen.		

CONTENTS

		Wheat	Barley	Flax
	Page	Page	Page	Page
Foreword.....	2	—	—	—
Introduction.....	3	—	—	—
Review of 1962 Season.....	5	—	—	—
Summary of Results.....	5	—	—	—
Map Showing Distribution.....	6	—	—	—
Plan of Test.....	7	—	—	—
Description of Tests.....	8	—	—	—
Interpretation of Results.....	8	—	—	—
Rainfall Table.....	9	—	—	—
Description of Varieties.....	—	10	16	22
Grain Yield Tables.....	—	11	18	22
Graphs Showing Yields.....	—	15	17	23
Time of Maturity.....	—	13	18	24
Height of Plants.....	—	13	19	24
Straw Strength.....	—	14	19	—
Neck Strength.....	—	—	20	—
Bushel Weight.....	—	14	20	25
Commercial Grades.....	—	14	20	25
Individual Tests by Wheat Pool Districts.....	—	26	40	53
Acknowledgements.....	25	—	—	—
Alphabetical Index of 1962 Variety Tests Supervisors.....	61	—	—	—

Summary of Results

REVIEW OF THE 1962 SEASON

The 1962 crop in Saskatchewan was quite exceptional. Prospects in the fall of 1961 and the following spring were not encouraging due to very dry conditions in most parts of the province. High winds and some soil drifting in early spring added to farmers' concern at seeding time. However as the season progressed, conditions improved markedly. Temperatures remained relatively low and rainfall occurred at the times when it was most needed. As a result the crop in most parts of the province was surprisingly heavy. The exception to this situation occurred in the central part of the province and a smaller area of the south-west in which yields were very low. In some cases, yields in these areas were no higher than in 1961. For the province as a whole, wheat yields averaged 19.8 bushels per acre and total wheat production was estimated by the Dominion Bureau of Statistics at 344,000,000 bushels.

WHEAT TESTS

The two varieties Thatcher and Canthatch yielded uniformly well in tests throughout the province in 1962. In terms of yield and growth characteristics these varieties are to all intents and purposes identical. The only notable difference between them is the fact that Canthatch has greater resistance to stem rust. Both varieties are susceptible to leaf rust and are therefore not suitable for use where this disease is likely to occur. Both are notably resistant to drought, lodging and shattering. Cypress, a new sawfly-resistant variety yielded reasonably well in the southern and western part of the province but was not outstanding in the eastern and northern areas. In a number of districts where sawfly is a hazard Cypress ranked between Rescue and Chinook in yield. Because of its sawfly resistance and its high milling and baking quality it should fill a useful place in some south-western parts of the province. Selkirk was not outstanding in yield in 1962, but because of its rust resistance is a useful variety in the eastern part of the province. Pembina, while low in yield in 1962, has valuable rust resistance and early maturity.

BARLEY TESTS

Palliser and Betzes, both two-rowed varieties, yielded well in most districts of the province in 1962. Palliser showed some yield advantage but has a slight grade disadvantage in that it cannot grade higher than Three C.W., while Betzes is eligible for One C.W. Compana yielded reasonably well in a limited area of the south-west, but is inferior to Palliser in yield, straw length and straw strength. Hannchen, a high quality two-rowed variety, yielded quite well in the northern and eastern districts in which it was tested. Keystone, the only feed variety tested, yielded only moderately well in 1962. Montcalm, a six-rowed malting variety, was in most districts, the lowest yielding variety of those tested.

FLAX TESTS

On the basis of 1962 tests it appears that Redwood, Norland and Cree were about equal in yielding ability. Army produced somewhat lower yields. In most districts Marine was outyielded by the other four varieties. In areas where frost is a hazard the early maturity of Marine may offset its lower yielding ability.

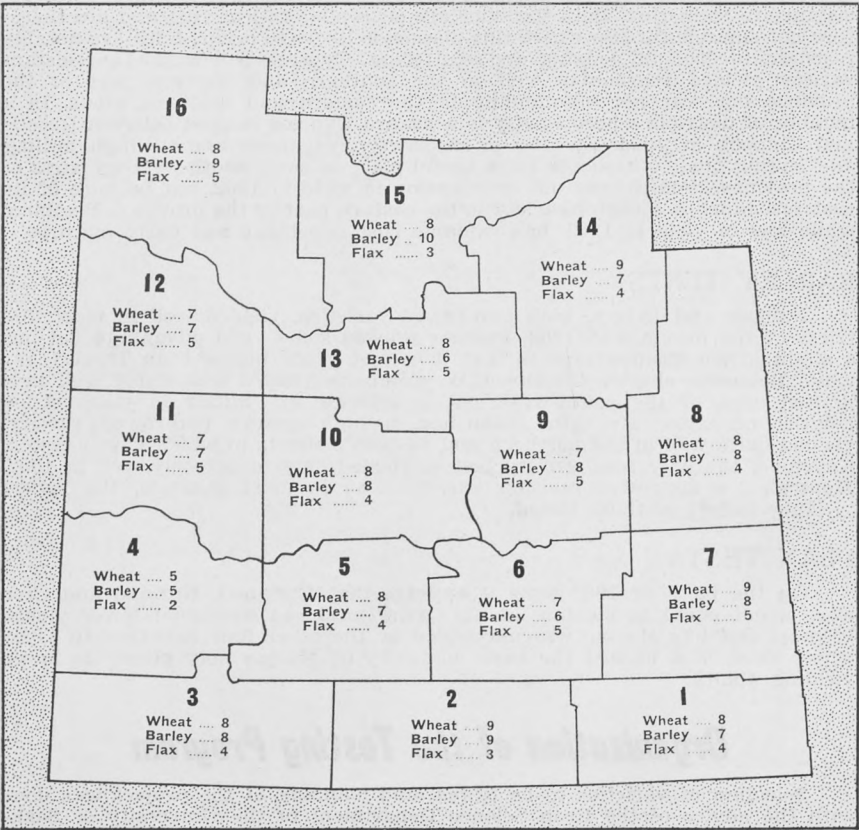
Organization of the Testing Program

Selection of varieties to be tested, and planning of the project was done with the advice of the Crop Science Department of the University of Saskatchewan. Valuable assistance was given by Dr. W. J. White, head of the department, and by Drs. D. R. Knott and E. N. Larter. Threshing, summarizing and statistical analysis were carried on under the direction of A. D. McLeod, B.S.A.

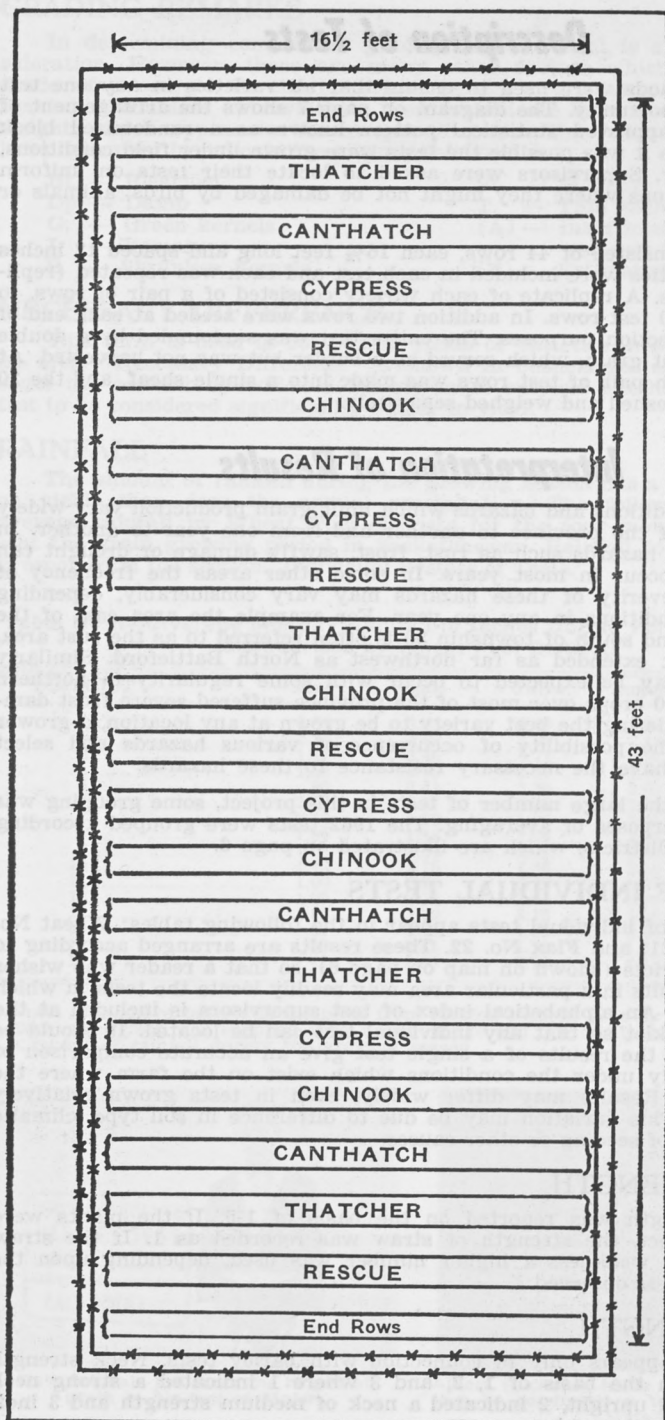
Each individual test was conducted by a young farm man or woman selected by the Wheat Pool delegate. An attempt was made to distribute tests as uniformly as possible throughout the grain growing area of the province, so the results would indicate the performance of varieties under varied growing conditions. The interest and enthusiasm of the young people who conducted tests on a voluntary basis contributed in no small measure to the success of the project.

Seed and equipment were prepared at the Head Office of the Wheat Pool and mailed to the supervisors, with complete instructions for seeding. During the growing season each supervisor was asked to complete three progress reports comparing the varieties at various stages of growth. Each supervisor was supplied with a rain gauge and part of his duties included keeping a daily record of rainfall for the four months May, June, July and August.

In the fall, the grain was harvested, dried, wrapped in paper and shipped to the Head Office of the Wheat Pool for threshing and yield calculation. This report was prepared from the yield results and the progress reports received from variety test supervisors and Wheat Pool delegates.



MAP SHOWING DISTRIBUTION OF TESTS IN 1962



PLAN OF TEST

The accompanying diagram shows the layout of a typical wheat test. One of the five randomizations or varietal arrangements is shown. The test rows were seeded in pairs spaced 12 inches apart. The crossed lines represent border rows of other grain. Barley and flax tests were laid out in a similar manner. A two-foot pathway was left between the test and the surrounding field.

Description of Tests

Several methods were used to ensure that all varieties in any one test had an equal opportunity. The diagram on page 7 shows the arrangement of varieties in an approved statistical pattern known as a randomized block plan. In so far as it was possible the tests were grown under field conditions, on summerfallow. Supervisors were asked to locate their tests on uniform soil and in locations where they might not be damaged by birds, animals or insects.

Each test consisted of 44 rows, each 16½ feet long and spaced 12 inches apart. Five varieties were included in each test and each was repeated (replicated) four times. A replicate of each variety consisted of a pair of rows, to give a total of 40 test rows. In addition two rows were seeded at each end of the test for protection purposes. The entire test was surrounded by a double row of a different grain, which served as a border but was not harvested. At harvest time each pair of test rows was made into a single sheaf, and the 20 sheaves were threshed and weighed separately.

Interpretation of Results

Growing conditions and hazards which limit grain production vary widely from one area of the province to another and from one year to another. In some areas crop hazards such as rust, frost, sawfly damage or drought can be expected to occur in most years. In some other areas the frequency of occurrence or severity of these hazards may vary considerably, depending on particular conditions in any one year. For example the area east of the third meridian and south of township 30 is often referred to as the rust area, yet in 1954 rust extended as far northwest as North Battleford. Similarly frost damage may be expected to occur with some regularity in northern areas, yet in 1950 crops over most of the province suffered severe frost damage. When considering the best variety to be grown at any location, a grower must consider the possibility of occurrence of various hazards and select varieties which have the necessary resistance to these hazards.

Because of the large number of tests in this project, some grouping was necessary for purposes of averaging. The 1962 tests were grouped according to Wheat Pool Districts, which are illustrated on page 6.

RESULTS OF INDIVIDUAL TESTS

The results of individual tests appear in the following tables: Wheat No. 20; Barley No. 21; and Flax No. 22. These results are arranged according to Wheat Pool districts (shown on map on page 6), so that a reader who wishes to study the results in a particular area may readily locate the tests in which he is interested. An alphabetical index of test supervisors is included at the back of the booklet so that any individual test can be located. It should be emphasized that the results of a single test give an accurate comparison of the varieties only under the conditions which exist on the farm where the test is located. Results may differ widely, even in tests grown relatively close together. This variation may be due to difference in soil type, climatic conditions, date of seeding or other causes.

STRAW STRENGTH

Straw strength was reported on the basis of 1-9. If the plants were straight and erect, the strength of straw was recorded as 1. If the straw showed signs of weakness a higher number was used, depending upon the degree of weakness observed.

NECK STRENGTH

This term appears only in connection with barley tests. Neck strength was recorded on the basis of 1, 2, and 3 where 1 indicated a strong neck holding the head upright, 2 indicated a neck of medium strength and 3 indicated weakness in the neck.

GRADING REMARKS

In determining commercial grades, bushel weight is an important consideration. However, there are many other factors which may lower the grade of a sample. In the individual results, the column headed "Grading Remarks" contains abbreviations used to indicate defects other than bushel weight, which appear in the sample of grain. The following abbreviations have been used to indicate the various defects:

Bl. — Bleached
Dp. — Damp
G. — Green kernels
I. — Immature
S. — Shrunken kernels

St. — Starchy
T. — Thin kernels
(A) — Insufficient grain to measure bushel weight
(E) — Estimated grade

NECESSARY DIFFERENCE

This term is used in comparing yields of varieties in a single test or in an area. "Necessary Difference" is shown in bushels per acre and it represents the amount by which a variety must outyield another variety in the test to be considered significantly higher in yield.

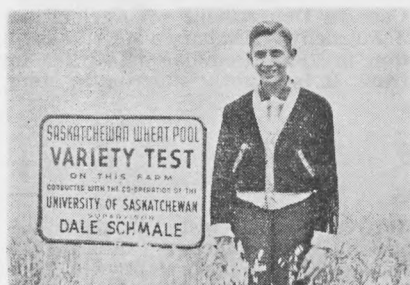
RAINFALL

The amount of rainfall during the growing season has a greater influence on yields than does the annual precipitation. The following table shows average rainfall by Wheat Pool districts for the four months which represent the grain growing period in Saskatchewan. Rainfall for individual tests is reported in the section "Individual Results of Tests."

Table No. 1—Average Monthly Rainfall in Inches During Period May-August Summarized by Wheat Pool Districts

DISTRICT	May	June	July	August	Total
1	3.84	3.44	2.08	3.09	12.88
2	2.26	3.69	3.09	2.12	11.18
3	1.17	3.45	4.71	.94	10.33
4	1.59	2.79	3.01	1.15	8.61
5 .....	.90	3.41	2.90	2.08	9.48
6	2.12	3.57	2.08	2.42	9.82
7	3.12	1.76	1.95	2.41	9.25
8	1.95	1.46	2.04	2.46	7.58
9	1.82	2.56	2.08	2.43	8.84
10	1.43	2.75	1.86	2.29	8.35
11	1.00	2.30	4.28	1.97	9.26
12	1.09	2.12	3.04	2.49	8.74
13	1.02	1.39	2.15	1.99	6.51
14 .....	.59	1.46	1.64	2.64	6.41
15 .....	.66	1.81	1.72	1.31	5.49
16	1.42	2.35	2.73	2.18	8.68

Note: The above table was compiled from rainfall records kept by test supervisors. Each supervisor was supplied with a rain gauge and one of his duties was to keep a record of rainfall during the growing season.



Dale Schmale indicates the height of grain in his test at Major.



Albert Ruckaber holds the sign indicating that he conducted a Wheat Pool test at Midale.

WHEAT TESTS

A total of 124 wheat tests were grown in 1962. Each test contained five varieties. Thatcher, Canthatch and Cypress were included in tests throughout the province. Rescue and Chinook were grown only in those tests located in the southern and western part of the province (Wheat Pool districts 2, 3, 4, 5, 10, 11, 12). In the remainder of the province they were replaced by Selkirk and Pembina.

DESCRIPTION OF VARIETIES

THATCHER—occupies almost half the total seeded acreage of wheat in the province and for this reason was included in these tests as a standard of comparison. It was developed at the University of Minnesota from the cross (Marquis x Iumillo) x (Marquis x Kanred). Thatcher is high in milling and baking quality. It is resistant to drought, shattering and spring frost damage, but is susceptible to bleaching. It is resistant to loose smut and moderately resistant to common rootrot, but susceptible to leaf rust, stem rust and covered smut.

CANTHATCH—was developed by the Canada Department of Agriculture at Winnipeg and licensed for commercial distribution in 1959. It is very similar to Thatcher in appearance and growth characteristics, but has added resistance to stem rust. It is, however, susceptible to leaf rust.

CYPRESS—this variety was grown in these tests under the code number W-62. It was developed by the Canada Department of Agriculture at Lethbridge and licensed for commercial distribution in 1962. It is medium early in maturity. Cypress has solid straw and thus is resistant to sawfly damage. It is high in milling and baking quality and is eligible for top grades. It is less resistant to shattering and lodging than Thatcher, and is susceptible to leaf and stem rust and to smut.

RESCUE—originated from a cross between Apex and a solid-stemmed hybrid known as S-615. It was licensed in 1946. Because of its solid straw Rescue is resistant to sawfly damage but is inferior to Chinook and Cypress in baking quality. It is early in maturity and has mid-strong straw. Rescue is susceptible to rusts and smuts.

CHINOOK—was developed from a cross between Thatcher and a hybrid known as S-615. It has solid straw and is higher in baking quality than Rescue. It is susceptible to the rusts and smuts. Chinook is less resistant to lodging than is Thatcher.

SELKIRK—was produced by the Canada Department of Agriculture at Winnipeg from crosses involving the varieties McMurachy, Exchange and Redman. It was licensed for commercial distribution in 1953. It is equal to Thatcher in maturity, straw length and straw strength. It is less resistant to shattering but more resistant to bleaching. Selkirk is resistant to stem rust and to loose and covered smut, and moderately resistant to leaf rust.

PEMBINA—was developed by the Canada Department of Agriculture at Winnipeg from the cross Thatcher x (McMurachy x Exchange x Redman⁸). It was licensed for commercial distribution in 1959. Pembina is earlier in maturity than Selkirk and has shorter straw. It is slightly superior in stem and leaf rust resistance.

PERFORMANCE OF VARIETIES

YIELDS

Southern and western districts. Of the five varieties tested in these districts, Thatcher and Canthatch fairly consistently outyielded the others. The two were quite similar in yield and there appears little to choose between them under the conditions which prevailed this year. Rescue ranked third on an average basis, although in districts three and ten it placed fifth of the five varieties. Cypress placed fourth and Chinook ranked fifth on an average

basis, but in districts three and ten Chinook ranked third. When comparing these varieties consideration should be given not only to the relative yielding ability but to their sawfly resistance and to the quality factor. If sawfly is not likely to be a problem the varieties Thatcher and Canthatch would be suitable. However where sawfly is likely to be a hazard one of the resistant varieties would likely prove most useful.

Northern and eastern districts. In these districts Canthatch fairly consistently outyielded the other varieties, and Thatcher placed second on an average basis. Selkirk placed third on an average basis and Cypress placed fourth. Pembina was generally lower in yield than the others, placing either fourth or fifth in all these zones. When comparing these varieties it is useful to keep in mind their disease resistance. Selkirk and Pembina are resistant to stem and leaf rust, and Canthatch is resistant to stem rust only. Thatcher and Cypress are susceptible to both stem and leaf rust.

**Table No. 2—Average Yields in Bushels Per Acre
Summarized by Districts**

Districts**	No. of Satisfactory Tests	Thatcher	Canthatch	Cypress	Selkirk	Rescue	Pembina	Chinook	Necessary* Difference in Bushels
District 1	8	32.5	33.1	26.4	31.0	—	28.8	—	1.13
District 2	8	31.6	32.3	25.3	—	27.3	—	25.2	1.45
District 3	8	24.1	23.7	19.0	—	18.3	—	20.1	1.23
District 4	4	18.8	18.5	14.5	—	14.7	—	14.5	1.43
District 5	6	23.7	23.7	20.1	—	20.7	—	20.6	1.62
District 6	6	41.0	40.7	35.5	38.2	—	36.0	—	1.84
District 7	8	40.5	40.7	32.9	38.5	—	36.8	—	1.64
District 8	8	38.8	39.1	32.4	36.1	—	32.1	—	1.72
District 9	5	27.1	27.3	22.6	24.8	—	20.5	—	1.30
District 10	7	19.0	19.3	17.7	—	17.1	—	18.6	.94
District 11	5	28.8	28.9	24.5	—	24.5	—	23.2	N.S.
District 12	8	29.4	28.4	24.0	—	26.0	—	23.2	N.S.
District 13	7	22.1	22.2	18.6	19.0	—	16.7	—	1.17
District 14	7	36.0	35.5	31.1	30.3	—	28.1	—	1.41
District 15	7	35.3	34.1	27.4	31.8	—	28.7	—	N.S.
District 16	6	30.1	30.4	25.2	28.7	—	23.8	—	1.28

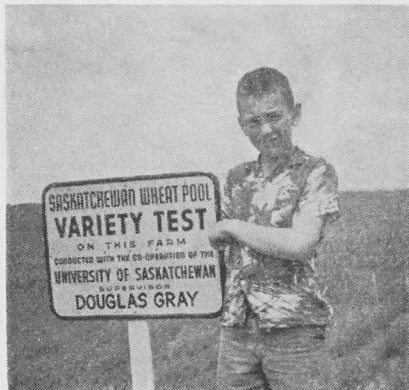
*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

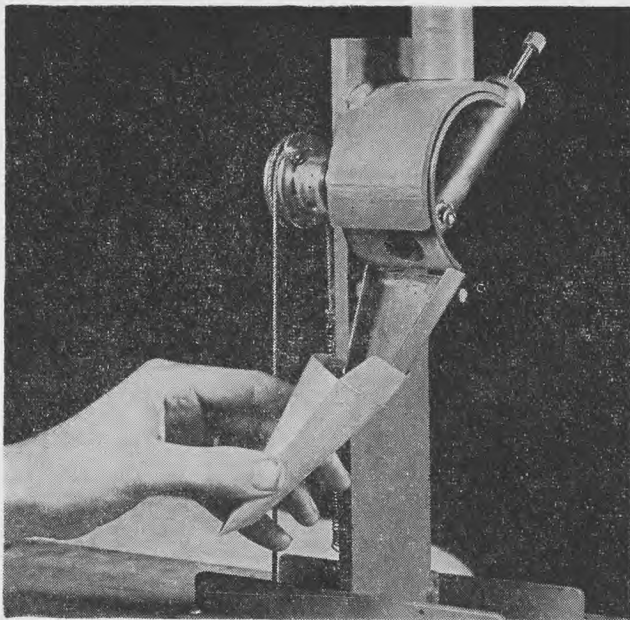
**See map, page 6.



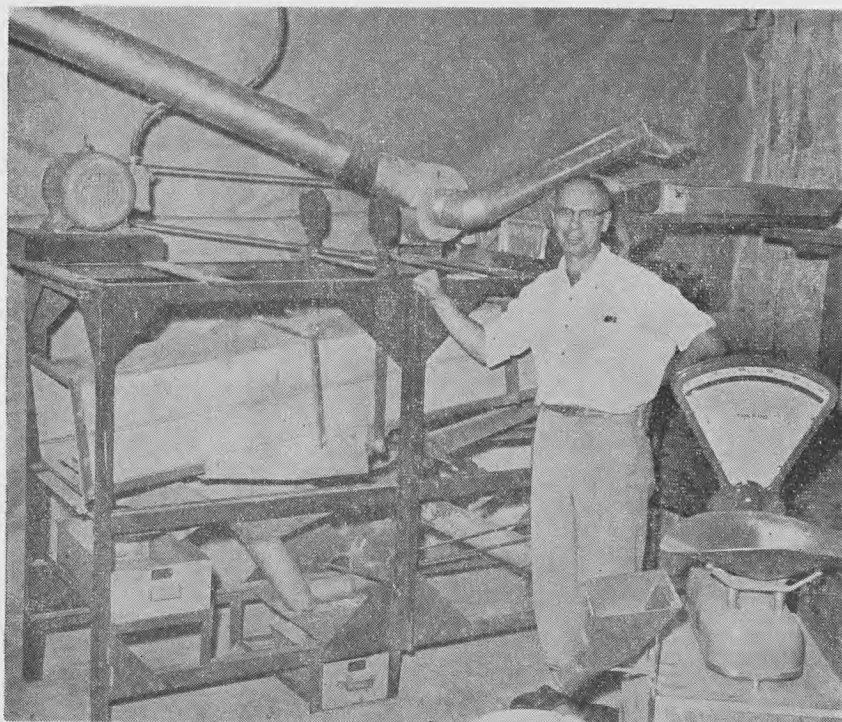
David Saville of Ravenscrag attached his sign to a roadside fence.



Douglas Gray conducted a flax test at Indian Head in 1962.



This machine was used to measure the exact amount of seed required for each row.



A small rod-row thresher located at the Wheat Pool Head Office was used to thresh the test sheaves.

TIME OF MATURITY

Southern and western districts. Of the five varieties tested in this area Thatcher and Canthatch were quite consistently earlier maturing than the others, but were themselves quite similar in time of maturity. Chinook ranked third on an average basis and Rescue placed fourth. Cypress was generally later maturing than the other varieties. None of the five varieties were, however, late maturing to the point where this might become an economic disadvantage.

Northern and eastern districts. In these districts Pembina was consistently earlier maturing than the other four varieties tested. Selkirk placed second on an average basis. Thatcher and Canthatch were quite similar and ranked third and fourth respectively on an average basis. Cypress matured later than the other four varieties in most cases in this area. None of these varieties could be considered so late in maturity that they would be unsuitable.

Table No. 3—Average Number of Days from Seeding to Ripening

Summarized by Districts							
District	Thatcher	Canthatch	Cypress	Selkirk	Rescue	Pembina	Chinook
District 1	96.9	96.9	96.9	96.4	—	96.0	—
District 2	94.3	94.3	95.0	—	94.5	—	94.2
District 3	107.5	107.3	108.5	—	108.3	—	108.0
District 4	104.0	104.0	105.0	—	104.0	—	105.0
District 5	104.3	105.0	104.7	—	104.7	—	104.7
District 6	94.4	95.0	95.6	94.2	—	93.6	—
District 7	98.8	98.4	98.8	98.1	—	97.8	—
District 8	93.4	93.2	94.6	91.4	—	91.6	—
District 9	90.0	90.0	90.0	92.0	—	92.0	—
District 10	98.5	98.0	99.5	—	99.5	—	99.0
District 11	101.5	101.0	101.0	—	102.5	—	102.5
District 12	97.0	97.2	100.4	—	99.8	—	98.8
District 13	102.2	102.2	103.0	101.0	—	101.3	—
District 14	92.6	92.4	93.2	92.8	—	91.0	—
District 15	103.5	103.8	105.5	102.5	—	103.0	—
District 16	114.3	114.5	113.8	113.8	—	113.3	—

PLANT HEIGHT

Plant height or length of straw can be an advantage or disadvantage depending on particular circumstances. In the more arid parts of the province a short-strawed variety may be difficult to swath in a year when the moisture supply is limited. On the other hand, in areas where moisture is more adequate, long-strawed varieties may tend to lodge if unfavorable weather occurs at harvest time.

Southern and western districts. Cypress was the tallest variety of the five tested, in most of these districts. Rescue was second tallest on an average basis, and Thatcher was the third tallest. Chinook was fourth tallest on an average basis, while Canthatch was on the average, the shortest variety of the five tested.

Northern and eastern districts. In this area Cypress was consistently taller than the other four varieties tested. Thatcher and Canthatch were second and third tallest on an average basis. Selkirk was fourth tallest in this area and Pembina was consistently the shortest variety of the five tested.

Table No. 4—Average Height of Plants in Inches
Summarized by Districts

District	Thatcher	Canthatch	Cypress	Selkirk	Rescue	Pembina	Chinook
District 1	30.3	29.9	30.3	30.0	—	28.7	—
District 2	27.5	26.5	27.7	—	27.5	—	28.2
District 3	22.8	22.7	23.8	—	23.0	—	22.2
District 4	20.8	20.8	20.8	—	21.8	—	20.5
District 5	25.8	25.2	25.2	—	25.6	—	26.0
District 6	33.2	33.2	33.2	32.5	—	32.3	—
District 7	30.3	29.4	30.4	29.3	—	28.7	—
District 8	31.2	30.5	31.3	29.5	—	28.3	—
District 9	27.3	27.3	29.3	27.3	—	25.3	—
District 10	26.0	26.0	27.3	—	26.5	—	26.0
District 11	24.3	23.3	23.3	—	24.0	—	23.3
District 12	29.8	29.0	31.8	—	31.6	—	31.8
District 13	21.8	21.6	21.9	20.0	—	18.9	—
District 14	29.8	29.5	30.7	29.2	—	28.0	—
District 15	30.8	30.4	30.6	27.8	—	28.6	—
District 16	27.6	27.0	26.4	26.6	—	23.4	—

STRAW STRENGTH

Southern and western districts. All five varieties tested in this area showed adequate straw strength and their order of rank in this regard varied from district to district, so that no general pattern can be detected.

Northern and eastern districts. Of the five varieties tested in this area only Cypress showed noticeable weakness in straw. It consistently ranked fifth and some reports indicated weakness as fairly serious. Cypress was developed specifically for use where sawfly damage is a problem and therefore it is unlikely to be grown in the northern and eastern part of the province.

**Table No. 5—Average Straw Strength of Plants
on the Basis 1 (Strong) to 9 (Weak) — Summarized by Districts**

District	Thatcher	Canthatch	Cypress	Selkirk	Rescue	Pembina	Chinook
District 1	1.5	1.6	3.4	1.5	—	1.8	—
District 2	2.3	2.6	2.3	—	2.3	—	2.3
District 3	3.7	3.9	2.8	—	3.5	—	3.3
District 4	1.3	1.4	1.3	—	1.3	—	1.3
District 5	2.1	2.0	2.1	—	2.3	—	2.3
District 6	1.5	1.6	2.3	1.4	—	1.5	—
District 7	1.8	1.7	3.9	1.9	—	2.1	—
District 8	1.6	1.6	3.0	1.4	—	1.6	—
District 9	3.7	2.7	4.8	3.3	—	3.6	—
District 10	1.5	1.4	1.7	—	1.3	—	1.3
District 11	1.0	1.0	1.2	—	1.0	—	1.0
District 12	1.2	1.6	3.3	—	3.1	—	2.6
District 13	2.5	2.5	2.9	2.7	—	2.8	—
District 14	4.2	4.7	6.4	4.2	—	4.2	—
District 15	1.8	1.4	3.8	1.2	—	1.7	—
District 16	1.4	1.7	2.8	1.6	—	3.0	—

WEIGHT PER MEASURED BUSHEL

Southern and western districts. Samples of Chinook outweighed those of the other varieties tested in this area, and on an average basis those of Cypress ranked second. Canthatch ranked third on an average basis. Thatcher and Rescue were generally lower in bushel weight than the other varieties, but neither of these two was consistently lower than the other.

Northern and eastern districts. Of the five varieties tested in this area Canthatch showed the highest bushel weight. Cypress ranked second on an average basis, followed by Thatcher. Pembina ranked fourth on an average basis and Selkirk was consistently lower in bushel weight than the other varieties in this area.

Table No. 6—Average Weight Per Measured Bushel—Summarized by Districts

District	Thatcher	Canthatch	Cypress	Selkirk	Rescue	Pembina	Chinook
District 1	61.3	61.4	62.1	60.8	—	61.4	—
District 2	62.5	62.9	63.6	—	63.3	—	64.0
District 3	61.4	62.0	61.3	—	60.5	—	61.9
District 4	61.7	60.7	60.7	—	61.7	—	62.0
District 5	60.6	61.4	61.3	—	61.0	—	62.0
District 6	62.3	63.2	62.7	62.0	—	62.7	—
District 7	61.9	62.7	62.8	61.3	—	61.9	—
District 8	62.6	63.4	62.4	62.0	—	63.0	—
District 9	61.4	61.8	61.8	60.2	—	60.8	—
District 10	60.1	61.0	62.4	—	61.3	—	62.3
District 11	61.4	61.6	62.0	—	61.4	—	62.2
District 12	61.6	62.3	62.3	—	61.6	—	62.3
District 13	61.5	61.8	62.0	60.8	—	61.1	—
District 14	60.8	60.9	60.4	59.4	—	60.9	—
District 15	61.6	61.6	61.1	60.1	—	61.0	—
District 16	61.3	61.7	60.9	60.4	—	60.6	—

COMMERCIAL GRADES OF SAMPLES

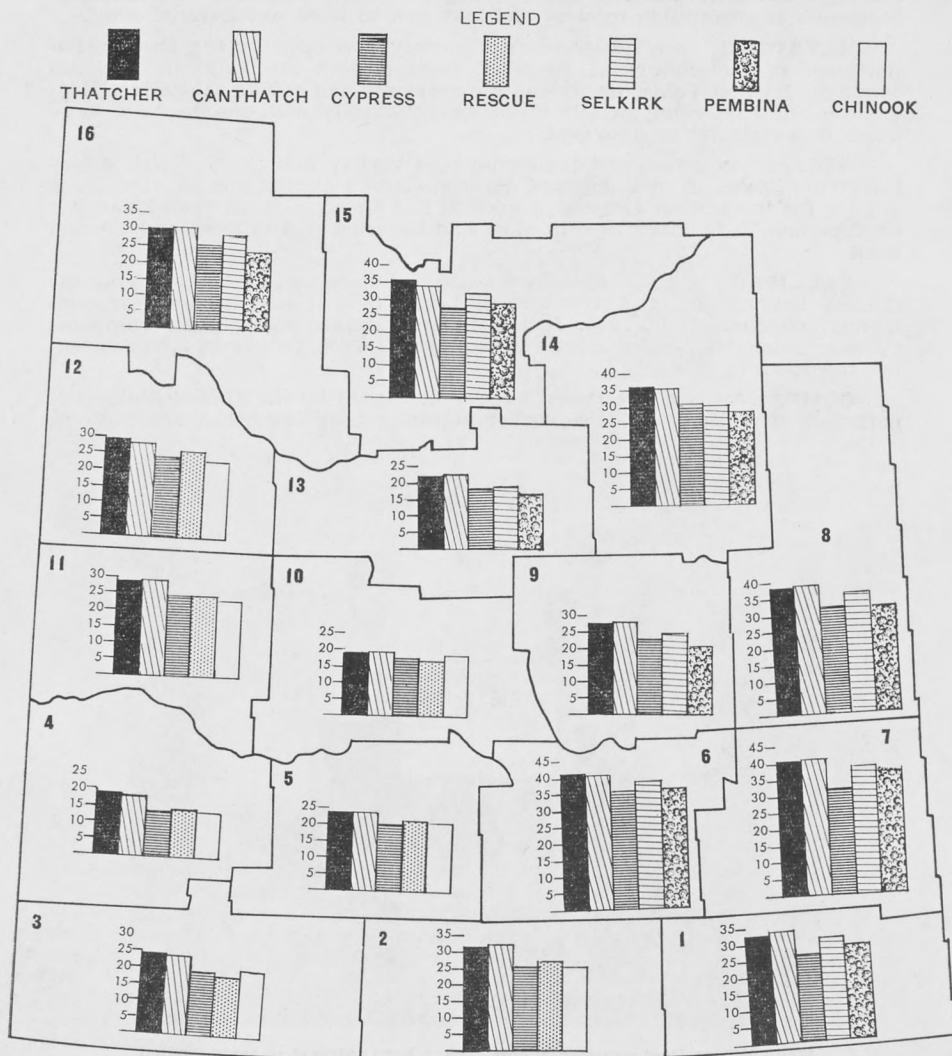
Southern and western districts. As might be expected from the discussion on bushel weight above, Chinook graded highest of the five varieties tested in this area, with nearly 47% of the samples falling in the top grade. Cypress ranked second with nearly 30% in this grade. Canthatch and Thatcher were quite similar with 23% and 21% respectively in this grade. Rescue graded lower than the other varieties tested.

Northern and eastern districts. On the basis of the percentage of samples falling in the One Northern grade. Canthatch ranked first, Cypress ranked second and Thatcher placed third. Selkirk and Pembina ranked equally on this basis. If the grades One and Two Northern are grouped together, there is little difference among the five varieties.

Table No. 7—Percentage of Commercial Grades by Varieties

(Pool Districts: 1, 6, 7, 8, 9, 13, 14, 15, 16)					
Variety	1 Nor. %	2 Nor. %	3 Nor. %	4 Nor. %	No. 5 %
Thatcher	13.6	57.6	12.1	7.6	9.1
Canthatch	22.7	47.0	12.1	9.1	9.1
Cypress	19.7	53.0	9.1	7.6	10.6
Selkirk	10.6	62.1	7.6	12.1	7.6
Pembina	10.6	60.6	12.1	10.6	6.1

(Pool Districts: 2, 3, 4, 5, 10, 11, 12)					
Thatcher	21.3	49.0	17.0	10.6	2.1
Canthatch	23.4	53.3	10.6	10.6	2.1
Cypress	29.8	44.7	14.9	8.5	2.1
Rescue	17.0	55.4	17.0	8.5	2.1
Chinook	46.8	27.7	17.0	6.4	2.1



GRAPH SHOWING WHEAT YIELDS IN 1962

BARLEY TESTS

A total of 120 barley tests, each containing five varieties, were seeded in 1962. The varieties Montcalm, Keystone, Betzes and Palliser were included in tests throughout the province. Compana was grown only in those tests located in the southern and western part of the province (Wheat Pool districts 2, 3, 4, 5, 10, 11, 12). In the northern and eastern part of the province (Wheat Pool districts 1, 7, 8, 9, 13, 14, 15, 16) it was replaced by Hannchen.

DESCRIPTION OF VARIETIES

MONTCALM—is a six-rowed malting variety developed at Macdonald College, Quebec and licensed for commercial distribution in 1945. It is mid-season in maturity, has fair straw strength and fair resistance to shattering. Montcalm is susceptible to stem and leaf rust to loose and covered smut.

KEYSTONE—is a six-rowed feed variety developed by the Canada Department of Agriculture at Brandon, from crosses involving the varieties Vantage, Jet and Vantmore. It has strong straw and resists shattering. Keystone is the first commercially useful barley variety with resistance to loose smut. It is resistant to stem rust.

BETZES—is a two-rowed, rough-awned variety brought to North America from Poland. It was licensed for commercial distribution in 1960. It is eligible for the highest two-row grades. It has stronger straw than Hannchen or Compana. It is susceptible to stem and leaf rust and to loose and covered smut.

PALLISER—is a two-rowed, mid-late maturing variety developed by the Canada Department of Agriculture at Lethbridge. It was licensed for commercial distribution in 1960. It has taller, stronger straw than Compana. Palisser is not eligible for grades higher than 3 C.W. Two-Row. It is susceptible to rusts and smuts.

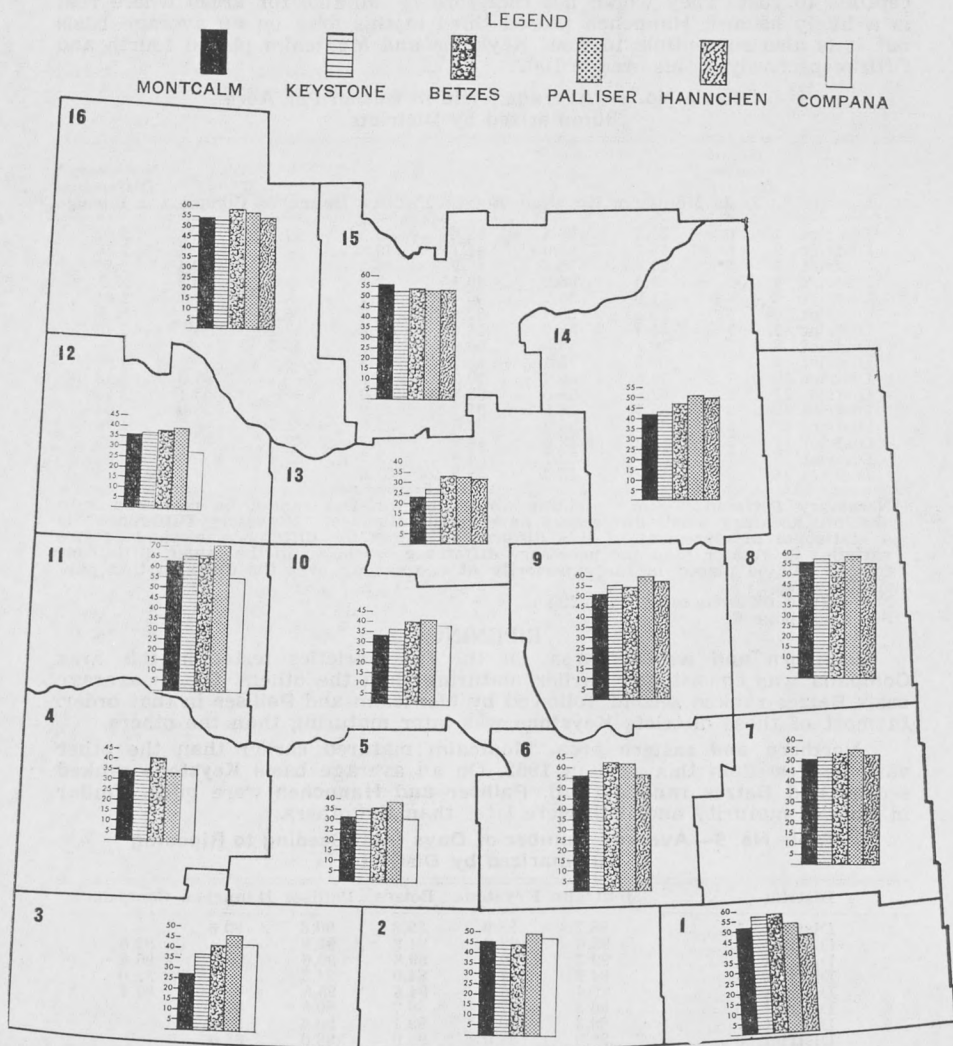
COMPANA—is a two-rowed variety developed by the United States Department of Agriculture. It is earlier maturing than Hannchen and Palliser,



Many Wheat Pool elevator agents took a keen interest in tests located at their shipping points. Here Albert Cottenie and Steve Kyba, agents at Kamsack, visit the barley tests conducted by Allan Konkina.

and has rather short, weak straw. Compana is susceptible to stem and leaf rust and to loose and covered smut. It is not eligible for grades higher than 3 C.W. Two-Row.

HANNCHEN—is a two-rowed, rough-awned variety selected in Canada from a variety which originated in Sweden. It is rather late maturing and has mid-short, mid-weak straw. Hannchen is susceptible to stem and leaf rust and to loose and covered smut. It is eligible for the highest two-row grades.



GRAPHS SHOWING BARLEY YIELDS IN 1962

PERFORMANCE OF VARIETIES

YIELDS

Southern and western area. Palliser consistently outyielded the other four varieties tested in this area. On an average basis, **Betzes** ranked second in yield. **Compana** ranked third on an average basis although in three of the seven districts it placed fifth of the five varieties. **Keystone** placed fourth on an average basis, and **Montcalm** was, on the average, lower in yield than the other varieties tested.

Northern and eastern districts. Palliser and **Betzes** both yielded well in this area but it should be kept in mind that both these varieties are susceptible to rust. They would not therefore be suitable for areas where rust is a likely hazard. **Hannchen** placed third in this area on an average basis but it is also susceptible to rust. **Keystone** and **Montcalm** placed fourth and fifth respectively in this area in 1962.

Table No. 8—Average Yield in Bushel Per Acre
Summarized by Districts

District**	No. of Satisfactory Tests	Montcalm	Keystone	Betzes	Palliser	Hannchen	Compana	Necessary* Difference in Bushels
District 1	6	51.7	56.8	58.0	53.3	47.7	—	2.82
District 2	6	45.3	44.0	44.1	49.8	—	47.4	2.56
District 3	5	27.4	36.8	42.2	46.2	—	42.4	2.86
District 4	2	33.4	35.2	40.1	33.3	—	35.6	N.S.
District 5	6	31.0	34.7	35.4	38.7	—	30.4	2.64
District 6	6	55.6	58.4	62.9	61.7	56.3	—	N.S.
District 7	7	51.1	52.0	53.6	55.6	53.2	—	2.19
District 8	7	56.8	58.0	56.9	59.0	55.9	—	3.08
District 9	8	50.9	55.1	53.9	58.8	56.9	—	3.86
District 10	7	33.5	36.6	40.0	41.7	—	38.0	2.13
District 11	7	62.6	65.5	65.8	71.0	—	55.1	2.73
District 12	6	35.7	36.5	38.2	39.9	—	28.0	1.94
District 13	5	23.2	26.9	33.0	32.5	31.5	—	1.74
District 14	7	42.2	43.0	46.9	50.7	49.8	—	2.03
District 15	7	55.9	52.7	54.0	53.2	53.4	—	3.40
District 16	8	54.1	53.2	58.3	57.2	54.9	—	3.74

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

N.S.—Yield differences not significant.

**See map, page 6.

RIPENING

Southern and western area. Of the five varieties tested in this area **Compana** was consistently earlier maturing than the others. On an average basis **Betzes** ranked second, followed by **Montcalm** and **Palliser** in that order. In most of these districts **Keystone** was later maturing than the others.

Northern and eastern area. **Montcalm** matured earlier than the other varieties tested in this area in 1962. On an average basis **Keystone** ranked second and **Betzes** ranked third. **Palliser** and **Hannchen** were quite similar in time of maturity and both were later than the others.

Table No. 9—Average Number of Days from Seeding to Ripening
Summarized by Districts

District	Montcalm	Keystone	Betzes	Palliser	Hannchen	Compana
District 1	88.7	88.9	89.6	90.6	90.6	—
District 2	92.6	92.2	94.2	91.8	—	92.0
District 3	99.2	100.4	99.8	99.6	—	95.6
District 4	84.3	84.7	84.0	84.3	—	82.0
District 5	92.4	95.6	94.6	95.8	—	89.4
District 6	86.3	87.3	86.7	89.3	87.7	—
District 7	89.3	90.0	89.1	90.4	90.3	—
District 8	98.0	98.0	98.0	98.0	98.0	—
District 9	93.8	94.7	94.5	95.2	95.2	—
District 10	83.0	82.8	82.5	84.8	—	78.8
District 11	99.0	100.0	97.0	98.0	—	89.3
District 12	87.3	86.3	86.3	88.3	—	85.7
District 13	96.0	97.0	98.7	97.0	97.7	—
District 14	87.0	85.8	85.8	88.5	87.3	—
District 15	85.4	87.6	88.0	90.6	89.8	—
District 16	94.7	94.7	97.2	97.2	97.8	—

HEIGHT OF PLANTS

Under certain climatic conditions long straw may be considered an advantage, while in other cases it could be considered a disadvantage. Where moisture supply is limited a short-strawed variety may be difficult to harvest. On the other hand a long-strawed variety grown under moist conditions, may tend to lodge if not harvested promptly. This condition is, of course, related to strength of straw as well.

Southern and western area. Montcalm was consistently taller than the other four varieties tested in this area. Palliser and Keystone were quite similar in height. Betzes was, on the average, somewhat shorter than these and Compana was notably shorter than the other four varieties tested.

Northern and eastern area. Of the five varieties tested in this area, Montcalm exceeded the others in height. Keystone and Palliser were quite similar in height, and both were shorter than Montcalm. Hannchen was fourth tallest on an average basis and Betzes was consistently shorter than the other four varieties tested.

**Table No. 10—Average Height of Plants in Inches
Summarized by Districts**

District	Montcalm	Keystone	Betzes	Palliser	Hannchen	Compana
District 1	33.5	28.7	26.8	29.5	28.5	—
District 2	24.0	23.5	20.4	22.1	—	18.4
District 3	26.8	25.2	23.0	24.8	—	20.3
District 4	22.7	20.0	19.0	21.7	—	20.0
District 5	21.2	19.0	17.5	19.8	—	16.0
District 6	26.8	25.6	23.8	25.2	24.4	—
District 7	26.9	23.7	22.9	24.1	24.6	—
District 8	25.8	24.5	23.5	25.5	24.3	—
District 9	23.4	21.9	19.8	21.4	21.6	—
District 10	22.9	20.7	19.4	21.0	—	18.9
District 11	32.2	28.4	24.0	27.4	—	19.6
District 12	25.8	23.0	20.5	22.8	—	18.7
District 13	24.4	21.8	21.2	23.8	23.2	—
District 14	25.2	23.4	22.6	24.8	23.6	—
District 15	27.3	26.4	22.7	26.3	23.7	—
District 16	31.7	29.7	26.4	29.0	27.4	—

STRAW STRENGTH

All the varieties tested in 1962 showed adequate straw strength, under the conditions which prevailed this year.

**Table No. 11—Average Straw Strength of Plants
on the Basis 1 (Strong) to 9 (Weak)
Summarized by Districts**

District	Montcalm	Keystone	Betzes	Palliser	Hannchen	Compana
District 1	2.6	1.5	2.7	2.9	2.9	—
District 2	2.7	2.2	3.1	2.6	—	3.1
District 3	1.8	1.7	1.8	1.9	—	2.2
District 4	1.5	1.8	2.1	1.5	—	1.8
District 5	3.1	2.7	3.0	3.2	—	3.7
District 6	1.4	1.3	2.2	1.6	2.0	—
District 7	1.8	1.5	2.2	2.0	1.9	—
District 8	2.2	2.0	2.0	2.7	2.1	—
District 9	1.8	1.7	2.2	2.1	1.8	—
District 10	1.7	1.3	1.4	1.6	—	1.6
District 11	3.1	1.6	4.2	2.3	—	2.0
District 12	2.1	1.9	3.1	2.8	—	2.4
District 13	3.1	3.0	3.3	3.1	3.3	—
District 14	2.1	1.6	1.9	2.7	2.4	—
District 15	2.6	2.4	3.3	3.0	2.7	—
District 16	2.3	1.5	2.2	3.3	3.4	—

NECK STRENGTH

Some barley varieties have a tendency to bend over just below the head, and under some weather conditions, heads may break off and fall to the

ground. In these tests neck strength was indicated by number, one indicating strong upright heads and three indicating a considerable degree of bending and breakage.

Southern and western area. Of the five varieties tested in this area **Keystone** showed the greatest neck strength, followed by **Palliser** and **Compana** in that order. **Montcalm** and **Betzes** ranked fourth and fifth respectively.

Northern and eastern area. In this area **Keystone** showed greater neck strength than the other varieties tested. The relationship of the other varieties varied somewhat from district to district but on an average basis they ranked in the following order: **Palliser**, **Hannchen**, **Montcalm**, **Betzes**.

**Table No. 12—Average Neck Strength of Plants
on the Basis 1 (Strong) to 3 (Weak)**

Summarized by Districts

District	Montcalm	Keystone	Betzes	Palliser	Hannchen	Compana
District 1	2.1	1.4	2.2	1.9	2.0	—
District 2	2.0	1.4	2.2	1.7	—	2.2
District 3	2.3	1.2	2.2	1.7	—	1.8
District 4	1.9	1.6	3.0	1.8	—	1.8
District 5	2.0	1.7	2.6	2.2	—	2.2
District 6	1.6	1.2	2.4	1.7	2.6	—
District 7	2.1	1.3	2.1	1.7	1.9	—
District 8	1.7	1.0	2.8	1.8	1.9	—
District 9	2.4	1.7	1.9	2.0	1.9	—
District 10	2.1	1.3	2.2	1.8	—	2.0
District 11	2.2	1.5	2.6	1.8	—	1.9
District 12	1.7	1.4	2.2	1.6	—	1.5
District 13	1.6	1.3	2.3	1.7	2.1	—
District 14	2.3	1.3	2.0	1.7	1.8	—
District 15	2.2	1.4	2.0	1.8	2.0	—
District 16	2.0	1.1	2.3	2.0	2.0	—

BUSHEL WEIGHT AND GRADE

Weight per measured bushel is one of the factors which affect the grade of a grain sample. Therefore a variety which characteristically produces samples with high bushel weights is potentially more valuable than one with lower bushel weights. This statement must of course be qualified by the fact that weathering or other damage may affect grades, and that some varieties, because of quality limitations, are ineligible for some of the higher grades.

Of the varieties tested in 1962, **Montcalm** and **Keystone** are six-rowed varieties, while the others are two-rowed. **Keystone** is not eligible for grades higher than One Feed while **Montcalm** is eligible for One C.W. Grade. **Hannchen** and **Betzes** are eligible for the highest two-row grades, while **Compana** and **Palliser** are not eligible for grades higher than Three C.W. Two-Row.

Southern and western area. **Betzes** samples ranked first in bushel weight, followed by **Compana**, **Palliser** and **Montcalm** in that order. **Keystone** was generally lower in bushel weight than the other four varieties tested in this area. Nearly 44% of samples of **Betzes** graded One C.W. Two-Row, while in relatively small percentage of samples of this variety fell in the Feed grades. **Compana** and **Palliser** were virtually equal in grades. A relatively small percentage of samples of **Montcalm** fell in the grade One C.W. Six-Row. **Keystone** is eligible for feed grades only but nearly 90% of the samples fell in the grade One Feed.

Northern and eastern area. Of the five varieties tested in this area **Hannchen** samples outweighed the others consistently. **Betzes** ranked second, while **Palliser**, **Montcalm** and **Keystone** placed third, fourth and fifth respectively with regard to bushel weight. With regard to grade there was little to choose between **Betzes** and **Hannchen**. **Palliser** graded quite well with 84% of the samples falling in Three C.W. Two-Row, the highest grade for which

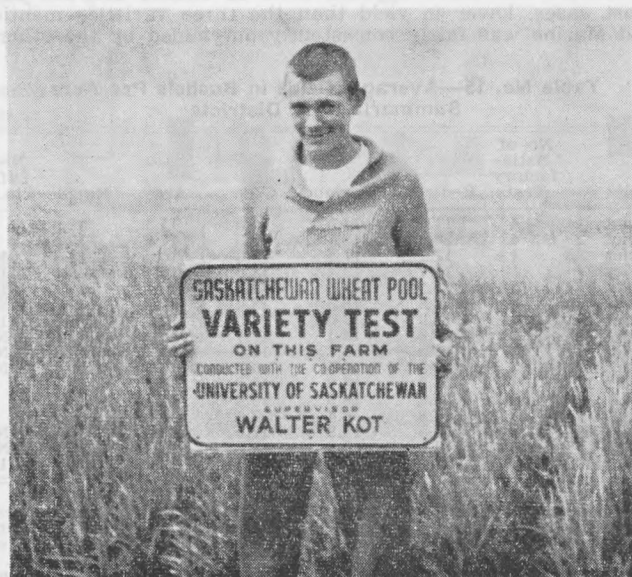
this variety is eligible. The bulk of the samples of **Montcalm** fell in the grade Three C.W. Six-Row. **Keystone** graded well with more than 90% of the samples in the top feed grade.

**Table No. 13—Average Weight Per Measured Bushel
Summarized by Districts**

District	Montcalm	Keystone	Betzes	Palliser	Hannchen	Compana
District 1	47.9	48.3	51.1	49.4	52.1	—
District 2	50.6	48.6	53.1	50.3	—	50.2
District 3	46.4	46.5	49.4	48.0	—	47.6
District 4	47.0	45.3	49.8	45.0	—	46.8
District 5	48.9	47.9	51.4	48.6	—	50.9
District 6	50.0	49.7	53.2	50.3	53.7	—
District 7	48.5	47.6	52.5	49.9	52.8	—
District 8	48.4	47.3	51.3	49.6	52.9	—
District 9	47.6	47.6	52.5	49.1	53.6	—
District 10	48.1	48.0	50.7	49.3	—	49.6
District 11	48.3	48.1	51.7	49.0	—	49.1
District 12	48.3	48.2	50.8	49.0	—	49.3
District 13	51.0	48.0	51.8	49.8	52.8	—
District 15	49.6	48.4	52.7	50.4	53.0	—
District 16	50.6	49.5	53.3	49.6	54.3	—

**Table No. 14—Percentage of Commercial Grades by Varieties
(Pool Districts: 2, 3, 4, 5, 10, 11, 12)**

Variety	1CW2R %	2CW2R %	3CW2R %	1CW6R %	2CW6R %	3CW6R %	1fd. %	2fd. %	3fd. %
Montcalm	—	—	—	4.2	20.8	39.6	25.0	8.3	2.1
Keystone	—	—	—	—	—	—	89.6	6.2	4.2
Betzes	43.7	8.3	27.1	—	—	—	16.7	2.1	2.1
Palliser	—	—	68.8	—	—	—	20.8	4.2	6.2
Compana	—	—	70.8	—	—	—	22.9	2.1	4.2
(Pool Districts: 1, 6, 7, 8, 9, 13, 14, 15, 16)									
Montcalm	—	—	—	3.2	9.5	63.5	20.6	3.2	—
Keystone	—	—	—	—	—	—	90.5	9.5	—
Betzes	44.4	14.3	38.1	—	—	—	3.2	—	—
Palliser	—	—	84.1	—	—	—	14.3	—	1.6
Hannchen	42.8	9.5	44.5	—	—	—	3.2	—	—



Walter Kot conducted a wheat test in 1962 at McTaggart.

FLAX TESTS

A total of 67 flax tests were grown in 1962. Each test contained the five varieties Redwood, Norland, Cree, Army, Marine.

DESCRIPTION OF VARIETIES

REDWOOD—This variety was developed by the Minnesota Experiment Station and licensed for commercial distribution in Canada in 1951. It is late maturing and has good straw length. It is resistant to rust and wilt.

NORLAND—is a selection from the variety Victory made at the North Dakota Agricultural Experiment Station. It was first distributed in Canada in 1954. Norland is late maturing and has medium tall straw. It is immune to rust and has fair resistance to wilt.

CREE—was developed by the Canada Department of Agriculture at Winnipeg from a cross between Crystal and Rocket, and was licensed for Commercial distribution in 1961. It is mid-season in maturity, has strong straw and good resistance to rust and wilt.

ARMY—was developed by the University of Minnesota and licensed in Canada in 1961. It is mid-season in maturity, and has good straw length. It is resistant to rust and wilt.

MARINE—was selected by the North Dakota Agricultural Experiment Station and licensed for commercial distribution in Canada in 1952. It is early in maturity and has good straw length. Marine is resistant to rust and wilt.

PERFORMANCE OF VARIETIES

YIELDS

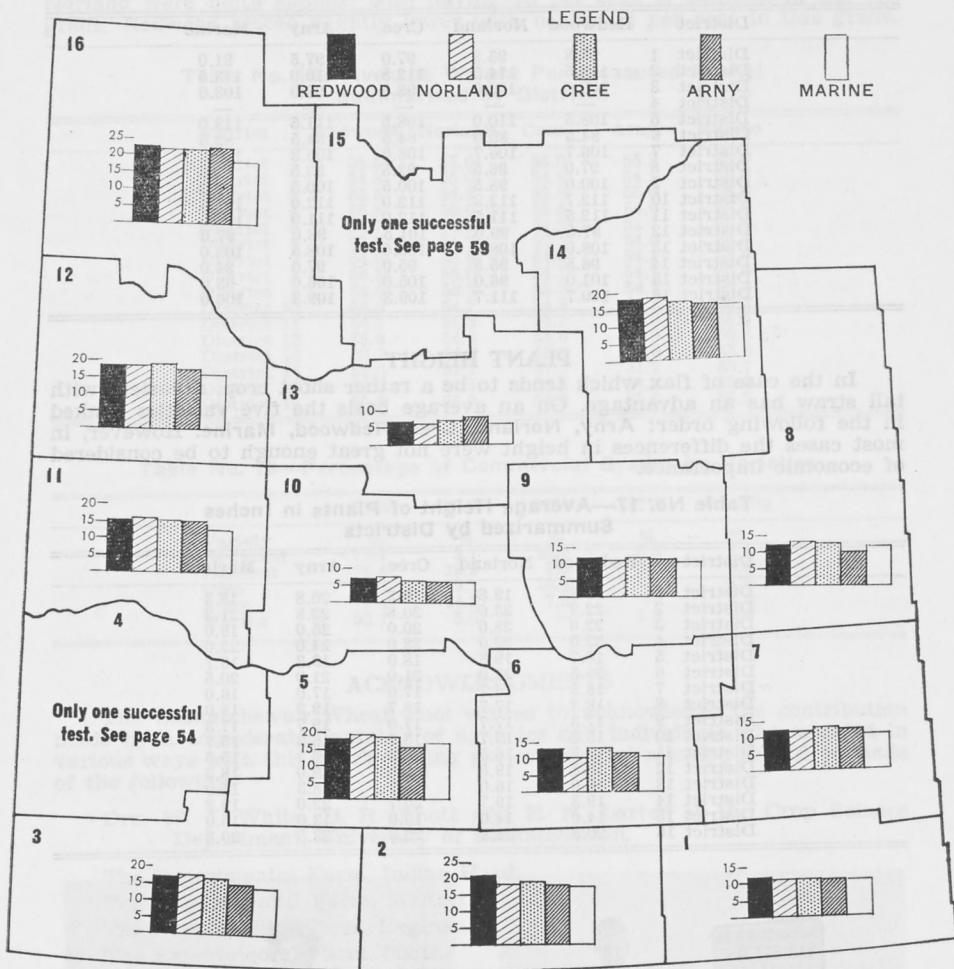
On the basis of yields over the province as a whole the three varieties Rocket, Norland and Cree were quite similar. Their placing varied from district to district and there appears little to choose between them. Army was, in most cases, lower in yield than the three varieties mentioned previously, and Marine was fairly consistently outyielded by the others.

Table No. 15—Average Yields in Bushels Per Acre
Summarized by Districts

District**	No. of Satisfactory Tests	Redwood	Norland	Cree	Army	Marine	Necessary* Difference in Bushels
District 1	4	11.9	11.5	11.5	11.1	11.0	.98
District 2	4	20.1	18.7	19.3	17.9	17.5	.98
District 3	4	17.1	17.4	16.6	15.0	14.3	1.23
District 4	1	15.7	13.3	18.0	16.8	13.4	1.23
District 5	3	18.1	19.3	18.6	15.9	16.8	1.10
District 6	3	12.8	10.3	13.4	12.7	10.7	.97
District 7	4	12.2	12.0	12.9	12.7	10.6	1.05
District 8	2	11.8	13.1	12.7	10.5	11.6	N.S.
District 9	3	12.3	11.1	11.9	11.7	10.1	N.S.
District 10	3	7.3	7.5	6.8	6.5	6.3	N.S.
District 11	4	15.3	16.0	15.5	15.1	13.3	.92
District 12	5	18.9	18.9	19.4	17.8	16.4	.90
District 13	3	6.8	6.4	7.4	8.0	6.3	.73
District 14	2	18.5	18.8	17.5	16.8	16.3	N.S.
District 15	1	10.1	9.8	9.8	8.9	9.5	N.S.
District 16	4	23.0	22.4	22.4	22.6	18.5	1.45

*Necessary Difference—Since yielding ability of varieties cannot be measured with absolute accuracy small differences have no significance. "Necessary Difference" is a statistical measurement of this difference. Unless the difference in yield of two varieties is greater than the necessary difference as shown in the tables, little confidence can be placed in the superiority of one variety over the other in that particular area.

**See map, page 6.



GRAPHS SHOWING FLAX YIELDS IN 1962

TIME OF MATURITY

Marine—was quite consistently earlier maturing than the other four varieties tested. This early maturity will tend to offset its lower yielding ability where frost is a hazard to be considered. The remaining four varieties were reasonably similar in time of maturity but on an average basis they ranked in the following order: Cree, Army, Redwood, Norland.

Table No. 16—Average Number of Days from Seeding to Ripening
Summarized by Districts

District	Redwood	Norland	Cree	Army	Marine
District 1	95.8	95.8	97.0	97.5	91.0
District 2	115.5	114.5	112.5	110.0	113.5
District 3	103.0	100.0	98.0	96.0	103.0
District 4	—	—	—	—	—
District 5	108.5	110.0	108.5	111.5	113.0
District 6	84.5	85.0	84.5	84.5	82.5
District 7	106.7	106.7	106.0	106.3	105.0
District 8	97.0	96.5	92.5	93.5	91.0
District 9	100.0	98.5	100.5	100.5	97.0
District 10	112.7	112.3	112.0	112.0	111.3
District 11	112.5	111.5	112.0	111.0	103.5
District 12	97.5	99.0	101.5	98.0	97.0
District 13	108.0	108.5	109.0	108.5	108.0
District 14	96.5	95.5	95.0	97.0	94.0
District 15	101.0	96.0	105.0	106.0	93.0
District 16	110.7	111.7	109.3	109.3	106.0

PLANT HEIGHT

In the case of flax which tends to be a rather short crop, a variety with tall straw has an advantage. On an average basis the five varieties ranked in the following order: Army, Norland, Cree, Redwood, Marine. However, in most cases the differences in height were not great enough to be considered of economic importance.

Table No. 17—Average Height of Plants in Inches
Summarized by Districts

District	Redwood	Norland	Cree	Army	Marine
District 1	18.8	19.8	19.3	20.8	18.3
District 2	22.3	23.0	20.8	22.8	21.3
District 3	22.0	28.0	20.0	25.0	19.0
District 4	22.0	22.0	23.0	24.0	22.0
District 5	18.7	19.3	18.0	19.3	18.7
District 6	20.5	21.0	21.0	21.0	20.5
District 7	16.3	16.7	17.0	17.0	16.0
District 8	18.3	17.7	18.7	19.3	18.0
District 9	17.3	17.7	17.0	19.7	17.3
District 10	15.0	13.7	15.7	16.3	15.7
District 11	17.5	16.5	16.3	16.3	15.5
District 12	18.8	19.5	18.8	19.0	18.3
District 13	16.0	16.0	15.7	18.3	15.0
District 14	19.3	19.7	20.7	22.0	19.3
District 15	14.0	14.0	15.0	13.0	15.0
District 16	20.8	21.8	22.3	23.5	20.3



Allen Nelson stands in the pathway surrounding his wheat test at Glentworth.



Catherine Moats stands proudly beside her flax test at Gray.

BUSHEL WEIGHT AND GRADE

To some degree bushel weight is related to the grading ability of a variety but in the case of flax a large majority of the samples had sufficient bushel weight to qualify them for the top C.W. grade. Therefore in cases where lower grades are reported they were usually due to other degrading factors such as frost. Marine outranked the other four varieties tested in 1962, with nearly 93 per cent of the samples falling in the grade One C.W. Cree ranked second with 78 percent of samples in this grade. Army and Norland were quite similar, both having 76 per cent of samples in the top grade. Redwood placed slightly lower with nearly 73 per cent in this grade.

Table No. 18—Average Weight Per Measured Bushel
Summarized by Districts

District	Redwood	Norland	Cree	Army	Marine
District 1	55.5	55.0	55.0	55.3	56.0
District 2	54.8	55.0	54.8	54.8	55.5
District 3	55.5	54.8	55.0	55.0	56.0
District 4	55.5	55.0	55.5	56.0	56.0
District 5	54.7	53.7	54.3	53.7	55.7
District 6	52.7	51.7	53.0	54.0	54.3
District 7	54.0	53.8	54.5	54.3	55.0
District 8	55.3	55.0	54.7	54.7	55.3
District 9	54.0	53.3	53.5	54.3	54.8
District 10	55.0	54.7	54.3	54.7	55.3
District 11	54.3	54.3	54.3	55.0	55.5
District 12	55.6	54.6	55.0	55.0	55.8
District 13	55.7	54.7	55.3	55.0	55.3
District 14	52.0	51.7	51.7	51.7	53.7
District 15	54.5	54.5	54.5	54.5	55.0
District 16	55.5	55.0	56.0	55.0	55.5

Table No. 19—Percentage of Commercial Grades by Varieties

	1CW	2CW	3CW	4CW	Sample
Variety	%	%	%	%	%
Redwood	72.7	9.1	10.9	5.5	1.8
Norland	76.4	10.9	5.5	3.6	3.6
Cree	78.2	9.1	10.9	—	1.8
Army	76.4	14.5	7.3	—	1.8
Marine	92.7	5.5	—	1.8	—

ACKNOWLEDGMENTS

The Saskatchewan Wheat Pool wishes to acknowledge the contribution made by a considerable number of agencies and individuals who assisted in various ways with this year's testing project. Special mention should be made of the following:

Drs. W. J. White, D. R. Knott and E. N. Larter of the Crop Science Department, University of Saskatchewan.

The Experimental Farm, Indian Head.

The Experimental Farm, Melfort.

The Experimental Farm, Regina.

The Experimental Farm, Scott.

The Experimental Farm, Swift Current.

A special tribute is due to three hundred and eleven young farm men and women who voluntarily contributed their time and enthusiasm and thereby made a notable contribution to the success of this project.

Table No. 20

INDIVIDUAL TEST RESULTS — WHEAT

The results of all successful wheat tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

IMPORTANT—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviation under "Grading Remarks," see page 9.

WHEAT POOL DISTRICT 1

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
BRUCE F. PORTER, CARNDUFF									
1	1	Thatcher	24.6	98	34	2.0	57	3 Nor.	S.
		Canthatch	25.3	98	33	1.8	57	3 Nor.	S.
		Cypress	19.8	98	34	2.3	60	2 Nor.	S.
		Selkirk	22.2	96	30	1.0	56	4 Nor.	S.
		Pembina	22.3	95	27	1.3	59	3 Nor.	S.
Necessary	difference—1.41	bushels			Rainfall—May to August—16.74	inches			
KENNETH B. HULL, ALIDA									
1	2	Thatcher	26.3	—	—	2.0	60	2 Nor.	S.
		Canthatch	27.3	—	—	2.3	61	2 Nor.	S.
		Cypress	21.1	—	—	4.0	60	2 Nor.	S.
		Selkirk	25.4	—	—	2.0	59	2 Nor.	S.
		Pembina	27.4	—	—	2.0	61	2 Nor.	S.
Necessary	difference—3.37	bushels			Rainfall—May to August—14.77	inches			
G. LYLE FEE, ALAMEDA									
1	3	Thatcher	33.9	95	36	2.0	62	2 Nor.	Bl.
		Canthatch	31.6	95	35	2.0	63	2 Nor.	Bl.
		Cypress	27	95	34	2.0	64	1 Nor.	—
		Selkirk	28.9	95	34	2.0	62	2 Nor.	S.
		Pembina	24.3	95	35	2.0	62	2 Nor.	Bl.
Necessary	difference—4.86	bushels			Rainfall—May to August—11.71	inches			
RONALD E. WILHELM, BENSON									
1	5	Thatcher	35	91	31	1.0	62	2 Nor.	T
		Canthatch	38	91	30	1.0	63	1 Nor.	—
		Cypress	28.4	92	34	1.0	65	1 Nor.	—
		Selkirk	35.5	90	36	1.0	64	1 Nor.	—
		Pembina	31.2	92	32	1.0	62	2 Nor.	T
Necessary	difference—5.99	bushels			Rainfall—May to August—11.73	inches			
ALBERT W. RUCKABER, MIDALE									
1	6	Thatcher	35.3	93	28	1.5	62	2 Nor.	T
		Canthatch	35.7	93	28	2.0	62	2 Nor.	T
		Cypress	29.2	93	28	4.3	63	2 Nor.	T
		Selkirk	32.8	93	28	1.3	61	2 Nor.	T
		Pembina	31.3	93	28	3.8	62	2 Nor.	T
Necessary	difference—2.91	bushels			Rainfall—May to August—8.74	inches			
BRADLEY D. McKENZIE, TRIBUNE									
1	7	Thatcher	16.2	103	22	1.8	62	2 Nor.	T
		Canthatch	16.6	103	21	1.5	62	2 Nor.	T
		Cypress	12.5	103	19	2.0	63	2 Nor.	T
		Selkirk	14.6	103	20	2.3	60	2 Nor.	T
		Pembina	14.2	104	20	2.3	61	2 Nor.	T
Necessary	difference—2.33	bushels			Rainfall—May to August—7.51	inches			
WALTER G. KOT, McTAGGART									
1	8	Thatcher	55.4	99	36	1.0	63	2 Nor.	T
		Canthatch	55.2	99	36	1.0	62	2 Nor.	T
		Cypress	47.7	99	38	5.5	64	1 Nor.	—
		Selkirk	50.2	99	35	1.0	63	1 Nor.	—
		Pembina	47.5	95	33	1.0	62	2 Nor.	T
Necessary	difference—1.92	bushels			Rainfall—May to August—12.54	inches			

Wheat Pool District 1—Continued

Dist.	Sub-Dist.	Varieties	Yield bus per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
W. NORMAN WOODWARD, REDVERS									
1	10	Thatcher	33.1	99	25	1.0	62	2 Nor.	S.
		Canthatch	34.9	99	26	1.0	61	2 Nor.	S.
		Cypress	25.4	98	25	6.0	58	3 Nor.	S.
		Selkirk	38.1	99	27	1.0	61	2 Nor.	S.
		Pembina	32.5	98	26	1.0	62	2 Nor.	S.
Necessary difference—2.71 bushels			Rainfall—May to August—17.75 inches						

WHEAT POOL DISTRICT 2

RENE D. BELLAVANCE, RADVILLE									
2	1	Thatcher	31.8	—	—	—	64	1 Nor.	—
		Canthatch	34.4	—	—	—	64	1 Nor.	—
		Cypress	25.5	—	—	—	65	1 Nor.	—
		Rescue	26.0	—	—	—	64	1 Nor.	—
		Chinook	29.0	—	—	—	65	1 Nor.	—
Necessary difference—4.11 bushels			Rainfall—May to August—incomplete						

GEORGE P. HARRISON, HARDY									
2	2	Thatcher	54.4	88	35	1.5	62	2 Nor.	S.
		Canthatch	52.6	88	33	1.3	63	2 Nor.	S.
		Cypress	42.4	87	35	2.8	62	2 Nor.	S.
		Rescue	49.3	87	35	2.3	62	2 Nor.	S.
		Chinook	43.8	87	35	2.0	63	2 Nor.	S.
Necessary difference—2.99 bushels			Rainfall—May to August—13.00 inches						

MELVIN J. GREENWOOD, CORONACH									
2	3	Thatcher	15.1	96	17	7.0	60	2 Nor.	Bl.
		Canthatch	16.7	95	14	8.0	61	2 Nor.	S.
		Cypress	11.0	97	16	7.0	63	2 Nor.	S.
		Rescue	11.2	97	15	7.0	62	2 Nor.	S.
		Chinook	11.0	94	17	7.0	63	2 Nor.	S.
Necessary difference—2.34 bushels			Rainfall—May to August—10.68 inches						

ALLEN W. NELSON, GLENTWORTH									
2	6	Thatcher	19.6	92	23	1.5	63	1 Nor.	—
		Canthatch	21.5	92	23	1.5	63	2 Nor.	T.
		Cypress	14.6	92	22	1.0	64	1 Nor.	—
		Rescue	14.0	92	22	1.0	63	2 Nor.	T.
		Chinook	17.3	92	23	1.3	64	1 Nor.	—
Necessary difference—2.16 bushels			Rainfall—May to August—12.93 inches						

RONALD E. CORNEIL, STONEHENGE									
2	7	Thatcher	22.2	—	—	—	62	2 Nor.	S.
		Canthatch	22.8	—	—	—	62	2 Nor.	S.
		Cypress	19.4	—	—	—	63	2 Nor.	S.
		Rescue	20.0	—	—	—	63	2 Nor.	S.
		Chinook	19.3	—	—	—	64	1 Nor.	—
Necessary difference—1.41 bushels			Rainfall—May to August—7.20 inches						

K. MURRAY SCHMIDT, VICEROY									
2	8	Thatcher	35.4	100	30	1.0	64	1 Nor.	—
		Canthatch	34.4	101	29	1.0	64	1 Nor.	—
		Cypress	25.9	101	30	1.0	65	1 Nor.	—
		Rescue	29.2	101	30	1.0	64	1 Nor.	—
		Chinook	24.1	101	29	1.0	64	1 Nor.	—
Necessary difference—2.46 bushels			Rainfall—May to August—7.68 inches						

BRIAN L. NAST, TROSSACHS									
2	10	Thatcher	31.2	98	26	1.0	62	2 Nor.	Bl.
		Canthatch	35.0	98	27	1.0	62	2 Nor.	S.
		Cypress	27.2	100	28	1.0	63	2 Nor.	S.
		Rescue	30.9	99	28	1.0	63	2 Nor.	S.
		Chinook	25.6	99	29	1.0	64	1 Nor.	—
Yield differences not significant			Rainfall—May to August—12.70 inches						

GARRY L. HOLT, BENGOUGH									
2	11	Thatcher	43.3	92	34.0	1.5	63	1 Nor.	—
		Canthatch	40.6	92	33.0	2.5	64	1 Nor.	—
		Cypress	36.0	93	35.0	1.0	64	1 Nor.	—
		Rescue	37.9	91	35.0	1.3	65	1 Nor.	—
		Chinook	31.5	92	36.0	1.5	65	1 Nor.	—
Necessary difference—1.41 bushels			Rainfall—May to August—11.80 inches						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

2 5 Dennis R. McGowan, Killdeer

WHEAT POOL DISTRICT 3

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
RUSSEL K. CARLETON, ORKNEY									
3	2	Thatcher	27.9	—	24	1.0	62	2 Nor.	Bl.
		Canthatch	27.8	—	27	1.0	61	3 Nor.	Bl., S.
		Cypress	15.3	—	30	1.0	59	3 Nor.	S.
		Rescue	14.9	—	25	1.0	59	3 Nor.	S.
		Chinook	18.9	—	20	1.0	60	3 Nor.	S.
Necessary difference—3.11 bushels			Rainfall—May to August—13.54 inches						
GREGORY J. HONEY, BRACKEN									
3	3	Thatcher	32.4	110	27	1.0	61	2 Nor.	Bl.
		Canthatch	23.8	110	25	1.0	62	2 Nor.	Bl.
		Cypress	35.8	110	24	1.0	60	2 Nor.	Bl.
		Rescue	32.9	110	26	1.0	60	2 Nor.	Bl.
		Chinook	32.6	110	26	1.0	61	2 Nor.	Bl.
Yield differences not significant			Rainfall—May to August—15.14 inches						
TREVOR W. ANDERSON, FRONTIER									
3	4	Thatcher	28.5	—	—	—	63	2 Nor.	Bl.
		Canthatch	31.3	—	—	—	64	2 Nor.	Bl.
		Cypress	22.8	—	—	—	63	2 Nor.	Bl.
		Rescue	21.7	—	—	—	63	2 Nor.	Bl.
		Chinook	23.3	—	—	—	63	2 Nor.	Bl.
Necessary difference—2.22 bushels			Rainfall—May to August—9.51 inches						
CLARK E. AMUNDSON, ROBSART									
3	5	Thatcher	16.2	112	18	6.3	62	2 Nor.	T.
		Canthatch	16.2	111	16	7.3	63	2 Nor.	T.
		Cypress	8.5	115	16	2.5	62	2 Nor.	S.
		Rescue	7.3	114	17	5.0	61	2 Nor.	S.
		Chinook	9.9	113	15	5.5	63	2 Nor.	S.
Necessary difference—2.69 bushels			Rainfall—May to August—7.38 inches						
DAVID J. SAVILLE, RAVENSCRAG									
3	6	Thatcher	20.3	95	24	8.0	65	1 Nor.	—
		Canthatch	20.1	95	22	8.0	65	1 Nor.	—
		Cypress	17.3	96	27	8.0	65	1 Nor.	—
		Rescue	16.8	96	24	8.0	63	2 Nor.	S.
		Chinook	17.6	96	25	8.0	65	1 Nor.	—
Necessary difference—1.05 bushels			Rainfall—May to August—8.54 inches						
RICHARD B. GIRARD, EASTEND									
3	7	Thatcher	25.7	113	22	—	63	2 Nor.	T.
		Canthatch	26.1	113	24	—	63	1 Nor.	—
		Cypress	21.3	113	24	—	62	2 Nor.	T.
		Rescue	20.0	113	24	—	62	2 Nor.	T.
		Chinook	22.6	113	23	—	64	1 Nor.	—
Necessary difference—3.23 bushels			Rainfall—May to August—10.73 inches						
HUGH E. McDONOUGH, CRICHTON									
3	9	Thatcher	12.8	—	22	2.3	56	4 Nor.	S.
		Canthatch	13.2	—	22	2.0	58	3 Nor.	S.
		Cypress	11.3	—	22	1.5	58	3 Nor.	S.
		Rescue	11.6	—	22	2.3	56	4 Nor.	S.
		Chinook	12.8	—	24	1.0	58	3 Nor.	S.
Necessary difference— .94 bushels			Rainfall—May to August—9.11 inches						
GARRY RESVICK, ANEROID									
3	10	Thatcher	28.8	—	—	—	59	2 Nor.	Bl.
		Canthatch	30.9	—	—	—	60	2 Nor.	Bl.
		Cypress	19.8	—	—	—	61	2 Nor.	Bl.
		Rescue	21.4	—	—	—	60	2 Nor.	Bl.
		Chinook	22.8	—	—	—	61	2 Nor.	Bl.
Necessary difference—4.01 bushels			Rainfall—May to August—incomplete						

WHEAT POOL DISTRICT 4

GARRY D. HEIZELMAN, GOLDEN PRAIRIE									
4	2	Thatcher	7.5	115	14	1.0	58	3 Nor.	S.
		Canthatch	5.5	115	13	1.0	56	4 Nor.	S.
		Cypress	4.8	115	14	1.0	56	4 Nor.	S.
		Rescue	5.3	115	15	1.0	59	3 Nor.	S.
		Chinook	5.1	115	12	1.0	59	3 Nor.	S.
Necessary difference—1.74 bushels			Rainfall—May to August—7.02 inches						

Wheat Pool District 4—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DENNIS E. SCHULER, HILDA, ALTA.									
4	7	Thatcher	2.5	—	14	1.3	58	3 Nor.	Bl.
		Canthatch	3.2	—	16	1.5	58	3 Nor.	Bl.
		Cypress	1.4	—	14	1.0	57	3 Nor.	Bl.
		Rescue	.7	—	15	1.0	(A)	3 Nor.	(E)
		Chinook	2.6	—	15	1.3	59	3 Nor.	Bl.
Necessary difference—1.49 bushels			Rainfall—May to August—6.75 inches						

DAVID W. HALE, LEMS FORD									
4	9	Thatcher	26.8	101	29	1.0	63	1 Nor.	—
		Canthatch	27.7	101	28	1.0	62	2 Nor.	S.
		Cypress	24.5	104	30	1.0	63	1 Nor.	—
		Rescue	25.1	101	30	1.0	62	2 Nor.	S.
		Chinook	20.6	104	30	1.0	63	1 Nor.	—
Necessary difference—1.50 bushels			Rainfall—May to August—11.76 inches						

LORNE R. JOHNSON, ABBEY									
4	10	Thatcher	38.5	96	26	2.0	64	1 Nor.	—
		Canthatch	37.7	96	26	2.0	64	1 Nor.	—
		Cypress	27.1	96	25	2.0	63	2 Nor.	T.
		Rescue	27.7	96	27	2.0	64	1 Nor.	—
		Chinook	29.5	96	25	2.0	64	1 Nor.	—
Necessary difference—5.54 bushels			Rainfall—May to August—8.71 inches						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

4 8 Brian Berger, Mendham

WHEAT POOL DISTRICT 5

BRIAN G. CUTHBERT, MOSSBANK									
5	1	Thatcher	23.1	105	29	—	62	2 Nor.	S.
		Canthatch	21.4	105	28	—	61	2 Nor.	S.
		Cypress	17.5	105	29	—	64	1 Nor.	—
		Rescue	16.4	105	28	—	62	2 Nor.	S.
		Chinook	22.7	105	31	—	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—12.57 inches						

GARY S. KRUSHELSKI, VANGUARD									
5	3	Thatcher	8.2	—	—	4.8	60	3 Nor.	S.
		Canthatch	7.4	—	—	4.3	61	2 Nor.	S.
		Cypress	5.5	—	—	4.5	60	3 Nor.	S.
		Rescue	5.4	—	—	4.8	59	3 Nor.	S.
		Chinook	5.9	—	—	4.3	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—7.60 inches						

RONALD and DAVID GIESBRECHT, WYMARK									
5	4	Thatcher	11.6	102	14	1.5	59	2 Nor.	Bl.
		Canthatch	11.0	104	14	1.5	60	2 Nor.	Bl.
		Cypress	7.7	103	15	1.3	59	2 Nor.	Bl.
		Rescue	8.8	103	16	2.0	60	2 Nor.	Bl.
		Chinook	7.5	102	15	2.0	61	2 Nor.	Bl.
Necessary difference—2.22 bushels			Rainfall—May to August—7.84 inches						

DIERDRE A. PAULSON, HODGEVILLE									
5	5	Thatcher	15.6	—	—	—	57	4 Nor.	F.
		Canthatch	15.9	—	—	—	58	4 Nor.	F.
		Cypress	18.3	—	—	—	58	4 Nor.	F.
		Rescue	16.9	—	—	—	58	4 Nor.	F.
		Chinook	13.8	—	—	—	58	4 Nor.	F.
Yield differences not significant			Rainfall—May to August—incomplete						

ROBERT J. DUCKWORTH, COURVAL									
5	6	Thatcher	43.3	106	29	1.0	62	2 Nor.	S.
		Canthatch	44.9	106	30	1.0	64	2 Nor.	Bl.
		Cypress	36.0	106	31.0	1.5	63	2 Nor.	S.
		Rescue	37.8	106	33	1.8	63	1 Nor.	—
		Chinook	34.5	107	31	1.3	64	1 Nor.	—
Necessary difference—4.69 bushels			Rainfall—May to August—10.65 inches						

DAVID G. HICKS, MARQUIS									
5	8	Thatcher	40.4	—	28	1.0	62	2 Nor.	W.
		Canthatch	41.7	—	28	1.0	63	2 Nor.	W.
		Cypress	35.4	—	28	1.0	63	2 Nor.	W.
		Rescue	38.8	—	28	1.0	62	2 Nor.	Bl.
		Chinook	39.4	—	28	2.0	63	1 Nor.	—
Yield differences not significant			Rainfall—May to August—10.47 inches						

Wheat Pool District 5—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
EVELYN C. NELSON, AQUADELL									
5	9	Thatcher	—	—	29	2.0	62	2 Nor.	Bl.
		Canthatch	—	—	26	2.0	63	2 Nor.	Bl.
		Cypress	—	—	23	2.0	62	2 Nor.	Bl.
		Rescue	—	—	23	2.0	63	2 Nor.	Bl.
		Chinook	—	—	25	2.0	64	1 Nor.	—
Part of test damaged by grasshoppers—yields not reliable							Rainfall—May to August—7.48 inches		
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
5	7	Ken Meadows, Mortlach							

WHEAT POOL DISTRICT 6

ADAM L. TOMASCHEFSKI, ODESSA									
6	2	Thatcher	50.7	95	30	2.0	62	2 Nor.	S.
		Canthatch	45.9	95	30	2.0	63	1 Nor.	—
		Cypress	48.2	100	33	5.0	61	2 Nor.	S.
		Selkirk	44.1	95	30	2.0	61	2 Nor.	S.
		Pembina	43.8	95	30	2.0	62	2 Nor.	S.
Yield differences not significant					Rainfall—May to August—9.92 inches				
MARILYN C. BRADLEY, MILESTONE									
6	3	Thatcher	28.9	97	30	1.3	61	2 Nor.	S.
		Canthatch	27.8	98	28	2.0	63	1 Nor.	—
		Cypress	26.8	98	29	1.5	64	1 Nor.	—
		Selkirk	26.8	96	27	1.5	62	2 Nor.	S.
		Pembina	23.3	93	26	1.3	62	2 Nor.	S.
Necessary difference—2.97 bushels					Rainfall—May to August—8.77 inches				
MELVIN J. SHORTLAND, BRIERCREST									
6	6	Thatcher	38.0	104	38	2.0	61	2 Nor.	Bl.
		Canthatch	39.8	104	38	2.0	62	2 Nor.	S.
		Cypress	29.5	104	38	2.0	61	2 Nor.	S.
		Selkirk	36.5	104	38	2.0	60	2 Nor.	S.
		Pembina	32.7	104	38	2.0	62	2 Nor.	Bl.
Necessary difference—4.35 bushels					Rainfall—May to August—11.42 inches				
DOUG SEIDLITZ, RICHARDSON									
6	7	Thatcher	40.1	—	30	1.0	63	2 Nor.	Bl.
		Canthatch	38.3	—	29	1.0	64	2 Nor.	Bl.
		Cypress	32.6	—	27	1.0	63	2 Nor.	Bl.
		Selkirk	33.2	—	30	1.0	64	2 Nor.	Bl.
		Pembina	34.7	—	33	1.0	64	2 Nor.	Bl.
Yield differences not significant					Rainfall—May to August—8.06 inches				
BONNY LYNNE GIBBONS, GILLESPIE									
6	9	Thatcher	38.3	88	32	1.8	62	2 Nor.	Bl.
		Canthatch	38.7	90	34	1.5	62	2 Nor.	Bl.
		Cypress	31.2	87	32	1.3	61	2 Nor.	S.
		Selkirk	37.9	88	30	1.0	61	2 Nor.	S.
		Pembina	33.2	88	29	1.5	62	2 Nor.	S.
Necessary difference—2.66 bushels					Rainfall—May to August—9.08 inches				
CAROL L. WEISBROD, DISLEY									
6	10	Thatcher	49.7	88	39	1.0	65	1 Nor.	—
		Canthatch	53.6	88	40	1.0	65	1 Nor.	—
		Cypress	44.5	89	40	3.0	66	1 Nor.	—
		Selkirk	50.7	88	40	1.0	64	1 Nor.	—
		Pembina	48.4	88	38	1.0	64	1 Nor.	—
Necessary difference—3.22 bushels					Rainfall—May to August—10.16 inches				
Test discarded on account of damage by flooding, pests, hail, drought or other causes:									
6	5	Elaine McKenzie, Belbeck							

WHEAT POOL DISTRICT 7

PETER G. CHRISTIE, MOOSOMIN									
7	2	Thatcher	51.5	95	36	1.0	61	2 Nor.	Dp.
		Canthatch	52.9	95	36	1.0	64	1 Nor.	—
		Cypress	43.3	95	42	7.0	62	2 Nor.	T.
		Selkirk	54.8	95	36	2.0	64	1 Nor.	—
		Pembina	58.8	95	36	1.0	63	1 Nor.	—
Yield differences not significant					Rainfall—May to August—12.08 inches				

Wheat Pool District 7—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JAMES A. CAIRNS, LANGBANK									
7	3	Thatcher	38.4	111	37	1.8	63	2 Nor.	Bl.
		Canthatch	39.1	110	33	1.5	63	2 Nor.	Bl.
		Cypress	25.8	107	33	4.0	62	2 Nor.	Bl.
		Selkirk	33.5	110	35	1.3	62	2 Nor.	Bl.
		Pembina	28.7	109	35	3.5	62	2 Nor.	Bl.
Necessary difference—4.65 bushels			Rainfall—May to August—9.79 inches						

DONALD and ALBERT DAKU, KIPLING									
7	4	Thatcher	28.8	109	33	1.3	61	2 Nor.	Bl.
		Canthatch	29.7	108	33	1.3	62	2 Nor.	Bl.
		Cypress	24.8	108	34	1.8	62	2 Nor.	S.
		Selkirk	27.5	107	33	1.0	60	2 Nor.	S.
		Pembina	24.1	108	30	1.8	62	2 Nor.	Bl.
Necessary difference—2.38 bushels			Rainfall—May to August—8.68 inches						

DONALD J. INNES, OSAGE									
7	5	Thatcher	—	98	14	3.0	57	3 Nor.	—
		Canthatch	—	98	14	2.8	56	4 Nor.	—
		Cypress	—	98	14	2.0	61	2 Nor.	—
		Selkirk	—	98	14	2.8	56	4 Nor.	—
		Pembina	—	98	14	2.5	57	3 Nor.	—
Test damaged by grasshoppers—yields not reliable			Rainfall—May to August—8.13 inches						

ROBERT T. LE CAIN, GRENFELL									
7	7	Thatcher	60.9	108	35	1.5	64	1 Nor.	—
		Canthatch	62.9	108	35	1.0	65	1 Nor.	—
		Cypress	50.2	108	34	1.8	64	1 Nor.	—
		Selkirk	55.5	108	35	1.5	64	1 Nor.	—
		Pembina	53.4	108	34	1.5	65	1 Nor.	—
Necessary difference—3.95 bushels			Rainfall—May to August—9.37 inches						

NORMAN H. ORE, ROCANVILLE									
7	8	Thatcher	43.0	84	33	2.0	63	2 Nor.	St.
		Canthatch	44.1	84	33	2.8	64	2 Nor.	St.
		Cypress	35.3	84	33	6.0	62	2 Nor.	St.
		Selkirk	45.1	85	33	3.0	63	2 Nor.	St.
		Pembina	42.7	84	33	3.0	63	2 Nor.	St.
Necessary difference—2.83 bushels			Rainfall—May to August—10.80 inches						

V. CLIFTON HINRICKSON, SPY HILL									
7	9	Thatcher	21.7	85	24	2.0	63	1 Nor.	—
		Canthatch	21.6	84	23	2.0	63	1 Nor.	—
		Cypress	18.2	86	24	2.0	65	1 Nor.	—
		Selkirk	20.1	83	22	2.0	61	2 Nor.	T.
		Pembina	16.2	83	20	2.0	61	2 Nor.	T.
Necessary difference—3.24 bushels			Rainfall—May to August—8.69 inches						

GEORGE E. OHNANDER, STOCKHOLM									
7	10	Thatcher	45.7	103	31	1.0	63	2 Nor.	Bl.
		Canthatch	43	104	30	1.0	64	1 Nor.	—
		Cypress	33.9	106	30	6.8	63	1 Nor.	—
		Selkirk	38.6	102	28	2.0	63	2 Nor.	S.
		Pembina	40.2	103	29	1.0	63	2 Nor.	Bl.
Necessary difference—3.27 bushels			Rainfall—May to August—8.19 inches						

DONALD R. JAMIESON, LEMBERG									
7	11	Thatcher	34.3	96	30	2.3	62	2 Nor.	Bl.
		Canthatch	32.6	95	28	2.3	63	2 Nor.	Bl.
		Cypress	31.4	97	30	3.8	64	2 Nor.	Bl.
		Selkirk	32.8	95	28	1.3	60	2 Nor.	Bl.
		Pembina	30.6	92	27	2.8	61	2 Nor.	Bl.
Rainfall—May to August—9.50 inches			Yield differences not significant						

WHEAT POOL DISTRICT 8

HARVEY N. POPP, MacNUTT									
8	1	Thatcher	31.1	92	25	2.0	63	1 Nor.	—
		Canthatch	33.8	92	24	2.0	62	2 Nor.	Bl.
		Cypress	24.2	93	26	2.0	60	2 Nor.	T.
		Selkirk	25.4	88	22	1.8	61	2 Nor.	S.
		Pembina	15.1	88	21	2.3	63	1 Nor.	—
Necessary difference—7.80 bushels			Rainfall—May to August—9.19 inches.						

Wheat Pool District 8—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONALD BADKE, SPRINGSIDE									
8	4	Thatcher	34.5	—	—	—	62	2 Nor.	Bl.
		Canthatch	35.9	—	—	—	63	2 Nor.	Bl.
		Cypress	27.1	—	—	—	63	2 Nor.	Bl.
		Selkirk	32.7	—	—	—	62	2 Nor.	Bl.
		Pembina	26.4	—	—	—	63	2 Nor.	Bl.
Necessary difference—6.75 bushels				Rainfall—May to August—Incomplete					

QUENTIN A. WEINBENDER, BURGIS									
8	6	Thatcher	28.2	95	29	2.0	61	2 Nor.	Bl.
		Canthatch	26.3	95	28	2.3	61	3 Nor.	F.
		Cypress	25.7	98	31	3.5	60	No. 5	F.
		Selkirk	26.6	93	25	1.0	61	2 Nor.	Bl.
		Pembina	27.8	93	25	2.0	61	2 Nor.	Bl.
Yield differences not significant				Rainfall—May to August—8.49 inches.					

SYLVIA RUSNAK, INSINGER									
8	7	Thatcher	51.7	95	38	1.0	64	1 Nor.	—
		Canthatch	53.3	95	36	1.0	65	1 Nor.	—
		Cypress	41.8	96	38	5.8	64	1 Nor.	—
		Selkirk	48.3	95	37	1.0	64	1 Nor.	—
		Pembina	46.7	95	34	1.0	64	1 Nor.	—
Necessary difference—2.61 bushels				Rainfall—May to August—7.27 inches					

EUNICE M. ROSAASEN, HINCHLIFFE									
8	8	Thatcher	40.8	—	27	1.8	63	1 Nor.	—
		Canthatch	42.5	—	27	1.5	65	1 Nor.	—
		Cypress	38.8	—	26	1.8	63	1 Nor.	—
		Selkirk	41.6	—	24	1.5	62	2 Nor.	S.
		Pembina	35.4	—	24	1.0	64	1 Nor.	—
Yield differences not significant				Rainfall—May to August—8.73 inches					

ANDY M. RAHN, DANBURY									
8	9	Thatcher	29.8	—	—	—	63	2 Nor.	S.
		Canthatch	27.3	—	—	—	63	2 Nor.	S.
		Cypress	26.0	—	—	—	62	2 Nor.	S.
		Selkirk	28.3	—	—	—	61	2 Nor.	S.
		Pembina	23.8	—	—	—	62	2 Nor.	S.
Necessary difference—3.27 bushels				Rainfall—May to August—9.12 inches					

JOHNNY J. KROCHAK, ARRAN									
8	10	Thatcher	48.3	82	31	2.0	62	2 Nor.	T.
		Canthatch	47.6	82	31	2.0	64	1 Nor.	—
		Cypress	39.3	84	30	4.0	63	2 Nor.	T.
		Selkirk	45.6	79	31	1.0	64	1 Nor.	—
		Pembina	42.7	80	30	2.0	64	1 Nor.	—
Necessary difference 2.62 bushels				Rainfall—May to August—7.44 inches					

THERESA M. NICHOLLS, VEILLARDVILLE									
8	11	Thatcher	46.3	103	37	1.0	63	2 Nor.	S.
		Canthatch	46.2	102	37	1.0	64	1 Nor.	—
		Cypress	36.0	102	37	1.0	64	1 Nor.	—
		Selkirk	40.0	102	38	2.0	61	2 Nor.	S.
		Pembina	38.9	102	36	1.0	63	2 Nor.	S.
Necessary difference—3.29 bushels				Rainfall—May to August—6.35 inches					

WHEAT POOL DISTRICT 9

FRANCES J. MIKENAS, LEROSS									
9	3	Thatcher	49.0	90	33	1.0	63	1 Nor.	—
		Canthatch	47.7	90	31	2.3	63	1 Nor.	—
		Cypress	41.5	90	36	1.0	62	2 Nor.	S.
		Selkirk	43.5	92	31	2.0	61	2 Nor.	S.
		Pembina	36.0	92	30	1.5	62	2 Nor.	S.
Necessary difference—4.62 bushels				Rainfall—May to August—11.46 inches					

HARRY J. SMITH, GOVAN									
9	6	Thatcher	24.8	—	24	5.0	60	2 Nor.	Bl.
		Canthatch	25.5	—	26	3.8	61	2 Nor.	Bl.
		Cypress	18.2	—	25	5.5	61	2 Nor.	Bl.
		Selkirk	23.2	—	24	4.0	59	2 Nor.	Bl.
		Pembina	19.4	—	24	6.3	59	2 Nor.	Bl.
Necessary difference—3.33 bushels				Rainfall—May to August—11.02 inches					

Wheat Pool District 9—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JAMES J. GETTIS, SEMANS									
9	7	Thatcher	21.3	—	—	—	61	2 Nor.	Bl.
		Canthatch	21.7	—	—	—	60	2 Nor.	Bl.
		Cypress	17.8	—	—	—	61	2 Nor.	Bl.
		Selkirk	18.5	—	—	—	59	2 Nor.	Bl.
		Pembina	15.3	—	—	—	60	2 Nor.	Bl.
Necessary difference—3.44 bushels			Rainfall—May to August—8.67 inches						

RICHARD P. KOWALSKI, WISHART									
9	9	Thatcher	29.0	—	25	5.0	61	2 Nor.	Bl.
		Canthatch	30.1	—	25	2.0	62	2 Nor.	Bl.
		Cypress	24.1	—	27	8.0	62	2 Nor.	Bl.
		Selkirk	28.5	—	27	4.0	61	2 Nor.	Bl.
		Pembina	25.7	—	22	3.0	61	2 Nor.	Bl.
Necessary difference—1.49 bushels			Rainfall—May to August—7.74 inches						

DOUGLAS and BRIAN FORD, ELFROS									
9	10	Thatcher	11.5	—	—	—	62	2 Nor.	Bl.
		Canthatch	11.5	—	—	—	63	2 Nor.	Bl.
		Cypress	11.3	—	—	—	63	2 Nor.	S.
		Selkirk	10.2	—	—	—	61	2 Nor.	S.
		Pembina	7.1	—	—	—	62	2 Nor.	Bl.
Necessary difference—1.78 bushels.			Rainfall—May to August—incomplete						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

9	4	Gordon P. Huber, Earl Grey
9	8	Lorne F. Hall, Wynyard

WHEAT POOL DISTRICT 10

WILLIAM C. RAYNER, PENZANCE									
10	1	Thatcher	21.7	—	21	1.0	62	2 Nor.	S.
		Canthatch	21.7	—	21	1.0	62	2 Nor.	S.
		Cypress	17.0	—	20	1.8	64	1 Nor.	—
		Rescue	14.8	—	20	1.5	62	2 Nor.	S.
		Chinook	19.2	—	20	2.0	64	1 Nor.	S.
Necessary difference—2.89 bushels			Rainfall—May to August—6.94 inches						

WILSON G. BARTON, BEECHY									
10	3	Thatcher	22.6	—	—	—	59	3 Nor.	S.
		Canthatch	22.1	—	—	—	61	2 Nor.	S.
		Cypress	25.9	—	—	—	62	2 Nor.	S.
		Rescue	24.7	—	—	—	61	2 Nor.	S.
		Chinook	23.6	—	—	—	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—12.26 inches						

JOHN McPHAIL, WISETON									
10	4	Thatcher	19.3	—	24	—	63	2 Nor.	T.
		Canthatch	19.1	—	25	—	64	1 Nor.	—
		Cypress	16.0	—	26	—	64	1 Nor.	—
		Rescue	17.6	—	26	—	63	2 Nor.	T.
		Chinook	17.0	—	25	—	64	1 Nor.	—
Yield differences not significant			Rainfall—May to August—7.71 inches						

DONALD B. ARNOLD, BIRSAY									
10	5	Thatcher	30.8	—	40	2.0	60	2 Nor.	Bl.
		Canthatch	34.8	—	38	2.0	61	2 Nor.	Bl.
		Cypress	39.7	—	42	2.0	62	2 Nor.	Bl.
		Rescue	37.8	—	42	1.0	62	2 Nor.	Bl.
		Chinook	37.7	—	39	1.0	62	2 Nor.	Bl.
Necessary difference—3.74 bushels			Rainfall—May to August—9.86 inches						

DENNIS G. LUCKI, HAWARDEN									
10	6	Thatcher	9.9	—	—	—	59	2 Nor.	Bl.
		Canthatch	10.2	—	—	—	59	2 Nor.	Bl.
		Cypress	6.2	—	—	—	61	2 Nor.	Bl.
		Rescue	5.3	—	—	—	59	2 Nor.	Bl.
		Chinook	8.4	—	—	—	61	2 Nor.	Bl.
Necessary difference—1.92 bushels			Rainfall—May to August—incomplete						

Wheat Pool District 10—Continued

Dist.	Sub-Dist.	Varieties	Yield per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
DOUGLAS G. RIECKEN, GIRVIN									
10	7	Thatcher	13.5	103	19	1.8	58	3 Nor.	Bl.
		Canthatch	12.6	103	20	1.5	59	2 Nor.	Bl.
		Cypress	9.0	103	21	1.8	61	2 Nor.	Bl.
		Rescue	8.3	103	18	1.5	60	2 Nor.	Bl.
		Chinook	12.2	103	20	1.0	61	2 Nor.	Bl.
Necessary difference—2.31 bushels			Rainfall—May to August—7.73 inches						

ELDON S. HUBBS, BLADWORTH									
10	9	Thatcher	14.9	94	—	1.0	60	3 Nor.	S.
		Canthatch	14.7	93	—	1.0	61	2 Nor.	S.
		Cypress	10.4	96	—	1.0	63	1 Nor.	—
		Rescue	11.3	96	—	1.0	62	2 Nor.	S.
		Chinook	12.4	95	—	1.0	63	1 Nor.	—
Necessary difference—1.67 bushels			Rainfall—May to August—8.11 inches						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

10 8 Roy Jones, Amazon

WHEAT POOL DISTRICT 11

OWEN G. STEPHENSON, SANCTUARY									
11	1	Thatcher	22.3	94	22	1.0	64	1 Nor.	—
		Canthatch	22.5	94	22	1.0	65	1 Nor.	—
		Cypress	19.9	96	22	1.0	65	1 Nor.	—
		Rescue	18.6	96	22	1.0	64	1 Nor.	—
		Chinook	17.4	95	22	1.0	65	1 Nor.	—
Necessary difference—1.69 bushels			Rainfall—May to August—7.30 inches						

HERBERT A. LOCK, KINDERSLEY									
11	5	Thatcher	43.1	—	—	—	60	3 Nor.	F.
		Canthatch	42.6	—	—	—	60	3 Nor.	F.
		Cypress	38.2	—	—	—	61	3 Nor.	F.
		Rescue	38.9	—	—	—	61	2 Nor.	F.
		Chinook	36.8	—	—	—	62	3 Nor.	F.
Yield differences not significant			Rainfall—May to August—7.06 inches						

BARBARA A. McKNIGHT, KINDERSLEY									
11	6	Thatcher	28.5	—	31	1.0	56	4 Nor.	W.
		Canthatch	27.6	—	28	1.0	56	4 Nor.	W.
		Cypress	24.2	—	31	1.5	58	2 Nor.	W.
		Rescue	24.3	—	31	1.0	57	3 Nor.	W.
		Chinook	24.3	—	29	1.0	57	3 Nor.	W.
Necessary difference—2.72 bushels			Rainfall—May to August—7.59 inches						

MARCEL J. DUBOIS, ROSETOWN									
11	7	Thatcher	12.4	109	20	1.0	63	2 Nor.	S.
		Canthatch	14.4	108	20	1.0	64	1 Nor.	—
		Cypress	8.3	106	17	1.0	63	2 Nor.	S.
		Rescue	9.8	109	19	1.0	62	2 Nor.	S.
		Chinook	10.5	110	19	1.0	64	1 Nor.	—
Necessary difference—2.62 bushels			Rainfall—May to August—6.57 inches						

EVERITT and ELAINE SANVILLE, SMILEY									
11	10	Thatcher	37.9	—	—	—	64	3 Nor.	F.
		Canthatch	37.5	—	—	—	63	3 Nor.	F.
		Cypress	32.1	—	—	—	63	3 Nor.	F.
		Rescue	31.0	—	—	—	63	3 Nor.	F.
		Chinook	27.7	—	—	—	63	3 Nor.	F.
Necessary difference—6.29 bushels			Rainfall—May to August—11.87 inches						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

11 8 Gerald E. England, Stranraer

WHEAT POOL DISTRICT 12

DELMAR J. BOYNE, BIGGAR									
12	1	Thatcher	33.7	—	—	—	61	4 Nor.	F.
		Canthatch	35.3	—	—	—	62	4 Nor.	F.
		Cypress	29.1	—	—	—	61	4 Nor.	F.
		Rescue	32.4	—	—	—	61	4 Nor.	F.
		Chinook	26.0	—	—	—	61	4 Nor.	F.
Yield differences not significant			Rainfall—May to August—9.92 inches						

Wheat Pool District 12—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DARRELL R. SCHMIDT, TRAYNOR									
12	2	Thatcher	26.5	—	—	—	58	No. 5	F.
		Canthatch	26.6	—	—	—	59	No. 5	F.
		Cypress	23.7	—	—	—	59	No. 5	F.
		Rescue	23.1	—	—	—	57	No. 5	F.
		Chinook	23.4	—	—	—	58	No. 5	F.
Yield differences not significant				Rainfall—May to August—incomplete					

PHILIP HUBER, LEIPZIG									
12	3	Thatcher	14.4	—	—	—	61	2 Nor.	Bl.
		Canthatch	13.2	—	—	—	61	2 Nor.	Bl.
		Cypress	9.8	—	—	—	62	2 Nor.	S.
		Rescue	10.7	—	—	—	61	2 Nor.	Bl.
		Chinook	10.0	—	—	—	63	2 Nor.	Bl.
Necessary difference—3.27 bushels				Rainfall—May to August—9.73 inches					

LARRY J. GERLINSKY, KERROBERT									
12	4	Thatcher	33.6	94	33	1.0	63	2 Nor.	S.
		Canthatch	30.0	94	33	1.0	63	2 Nor.	S.
		Cypress	29.7	96	35	1.8	64	1 Nor.	—
		Rescue	30.1	96	34	2.0	64	1 Nor.	—
		Chinook	27.9	96	36	2.0	65	1 Nor.	—
Yield differences not significant				Rainfall—May to August—7.51 inches					

RON P. KOENIG, REWARD									
12	5	Thatcher	22.6	98	19	2.0	64	1 Nor.	—
		Canthatch	21.8	97	19	2.8	64	1 Nor.	—
		Cypress	15.1	98	20	2.0	63	1 Nor.	—
		Rescue	18.0	97	20	1.8	62	2 Nor.	T.
		Chinook	17.3	98	20	1.8	64	1 Nor.	—
Necessary difference—2.83 bushels				Rainfall—May to August—6.97 inches					

WAYNE N. BROWN, RUTLAND									
12	7	Thatcher	33.8	99	36	1.0	62	2 Nor.	Bl.
		Canthatch	32.8	100	30	2.0	63	2 Nor.	Bl.
		Cypress	28.3	105	37	6.0	63	3 Nor.	F.
		Rescue	34.9	107	39	5.0	62	3 Nor.	F.
		Chinook	27.5	104	38	4.0	62	3 Nor.	F.
Necessary difference—2.25 bushels				Rainfall—May to August—incomplete					

HOWARD L. WALLACE, WILKIE									
12	9	Thatcher	36.7	99	35	1.0	63	1 Nor.	—
		Canthatch	35.6	99	35	1.0	64	1 Nor.	—
		Cypress	27.7	99	35	1.5	65	1 Nor.	—
		Rescue	29.0	99	34	1.8	64	1 Nor.	—
		Chinook	25.9	97	35	1.0	64	1 Nor.	—
Necessary difference—2.50 bushels				Rainfall—May to August—7.61 inches					

A. GARRY COTE, DELMAS									
12	10	Thatcher	34.0	95	26	1.0	61	4 Nor.	F.
		Canthatch	31.8	96	28	1.0	62	4 Nor.	F.
		Cypress	28.2	104	32	5.3	61	4 Nor.	F.
		Rescue	29.5	100	31	4.0	62	4 Nor.	F.
		Chinook	27.3	99	30	4.0	61	4 Nor.	F.
Yield differences not significant				Rainfall—May to August—10.70 inches					

WHEAT POOL DISTRICT 13

GARRY B. MUNDELL, LEROY									
13	1	Thatcher	14.5	—	22	2.0	61	2 Nor.	S.
		Canthatch	13.1	—	23	2.3	61	2 Nor.	S.
		Cypress	16.9	—	24	2.5	62	2 Nor.	S.
		Selkirk	11.3	—	19	2.0	60	2 Nor.	S.
		Pembina	13.2	—	19	2.0	61	2 Nor.	S.
Part of test destroyed—yields not included in district summary				Rainfall—May to August—7.25 inches					

WAYNE A. JOHNS, ZELMA									
13	2	Thatcher	11.0	107	17	1.5	59	3 Nor.	Bl.
		Canthatch	12.0	108	16	1.3	59	3 Nor.	Bl.
		Cypress	8.9	109	15	1.8	60	2 Nor.	Bl.
		Selkirk	12.4	110	15	1.5	58	3 Nor.	Bl.
		Pembina	9.7	109	15	1.5	58	3 Nor.	Bl.
Necessary difference—1.38 bushels				Rainfall—May to August—6.08 inches					

Wheat Pool District 13—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MICHAEL F. SUMMERFELDT, DUNDURN									
13	3	Thatcher	13.9	84	21	7.5	62	2 Nor.	S.
		Canthatch	13.1	85	21	7.5	62	2 Nor.	S.
		Cypress	12.9	83	23	5.3	62	2 Nor.	S.
		Selkirk	13.8	83	20	8.5	61	2 Nor.	S.
		Pembina	12.1	84	20	8.0	61	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—6.69 inches						

BRUCE A. MEILICKE, CLAVET									
13	4	Thatcher	20.9	—	22	1.8	60	2 Nor.	Bl.
		Canthatch	20.2	—	22	2.3	62	2 Nor.	Bl.
		Cypress	17.2	—	22	2.5	62	2 Nor.	Bl.
		Selkirk	20.0	—	23	1.3	60	2 Nor.	Bl.
		Pembina	14.5	—	19	1.3	60	2 Nor.	Bl.
Necessary difference—2.31 bushels			Rainfall—May to August—5.16 inches						

LARRY H. STAHL, LANGHAM									
13	6	Thatcher	10.7	92	14	1.5	63	2 Nor.	T.
		Canthatch	11.8	92	13	2.0	63	2 Nor.	S.
		Cypress	8.3	94	13	3.0	63	2 Nor.	S.
		Selkirk	11.1	94	13	2.0	62	2 Nor.	S.
		Pembina	7.4	92	12	2.0	62	2 Nor.	S.
Necessary difference—1.98 bushels			Rainfall—May to August—4.52 inches						

BOB BAYDA, SMUTS									
13	8	Thatcher	51.0	111	26	3.0	63	3 Nor.	F.
		Canthatch	52.5	112	27	2.5	62	3 Nor.	F.
		Cypress	39.9	113	25	2.3	63	3 Nor.	F.
		Selkirk	31.3	103	23	3.3	63	3 Nor.	F.
		Pembina	33.1	107	21	4.5	63	3 Nor.	F.
Necessary difference—7.19 bushels			Rainfall—May to August—7.20 inches						

WAYNE P. FORD, HUMBOLDT									
13	10	Thatcher	26.2	107	27	1.0	62	2 Nor.	S.
		Canthatch	25.4	106	26	1.0	63	2 Nor.	S.
		Cypress	23.0	108	26	3.0	63	1 Nor.	—
		Selkirk	24.9	106	25	2.0	61	2 Nor.	S.
		Pembina	22.4	107	24	2.0	62	2 Nor.	S.
Yield differences not significant			Rainfall—May to August—7.55 inches						

DAVID A. TINANT, MUENSTER									
13	11	Thatcher	21.1	112	25	1.5	62	4 Nor.	F.
		Canthatch	20.3	110	25	1.0	62	4 Nor.	F.
		Cypress	20.2	111	27	2.5	61	4 Nor.	F.
		Selkirk	19.3	110	22	1.0	61	4 Nor.	F.
		Pembina	17.5	109	21	1.0	62	4 Nor.	F.
Yield differences not significant			Rainfall—May to August—7.81 inches						

WHEAT POOL DISTRICT 14

EDMUND C. HOPE, NUT MOUNTAIN									
14	1	Thatcher	16.7	95	29	4.8	63	3 Nor.	F.
		Canthatch	17.0	94	29	5.8	63	3 Nor.	F.
		Cypress	14.0	95	29	4.3	62	3 Nor.	F.
		Selkirk	14.4	95	29	5.3	62	3 Nor.	F.
		Pembina	13.4	93	28	5.5	62	3 Nor.	F.
Yield differences not significant			Rainfall—May to August—7.09 inches						

KEITH KETILSON, NAICAM									
14	3	Thatcher	—	—	31	6.3	57	No. 5	F.
		Canthatch	—	—	31	6.0	56	No. 5	F.
		Cypress	—	—	32	6.3	58	No. 5	F.
		Selkirk	—	—	30	6.0	56	No. 5	F.
		Pembina	—	—	30	6.0	58	No. 5	F.
Test damaged—yields not reliable			Rainfall—May to August—7.54 inches						

LESTER O. SANDAKER, ARCHERWILL									
14	4	Thatcher	42.1	97	32	1.0	62	2 Nor.	S.
		Canthatch	41.2	97	32	2.0	61	2 Nor.	S.
		Cypress	37.4	96	36	7.0	60	2 Nor.	S.
		Selkirk	37.9	97	32	1.5	58	2 Nor.	S.
		Pembina	34.3	93	29	1.3	62	2 Nor.	S.
Necessary difference—2.62 bushels			Rainfall—May to August—9.48 inches						

Wheat Pool District 14—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
-------	-----------	-----------	---------------------	--------------------------	------------------------	----------------	--------------------------	-------------------	-----------------

EDWARD M. CESLAK, PERIGORD

14	5	Thatcher	61.6	92	38	2.8	61	No. 5	F.
		Canthatch	56.5	92	36	3.8	61	No. 5	F.
		Cypress	50.1	96	39	8.0	60	No. 5	F.
		Selkirk	48.3	93	35	2.3	60	4 Nor.	F.
		Pembina	43.1	90	34	2.3	63	4 Nor.	F.
Necessary difference—5.00 bushels					Rainfall—May to August—5.87 inches				

WAYNE DMYTRIW, PORCUPINE PLAIN

14	6	Thatcher	17.6	—	—	—	60	No. 5	F.
		Canthatch	18.8	—	—	—	61	No. 5	F.
		Cypress	16.6	—	—	—	59	No. 5	F.
		Selkirk	13.6	—	—	—	59	No. 5	F.
		Pembina	10.8	—	—	—	59	No. 5	F.
Necessary difference—3.13 bushels					Rainfall—May to August—5.95 inches				

RODNEY McLEOD, BJORKDALE

14	7	Thatcher	27.3	86	18	9.0	62	3 Nor.	F.
		Canthatch	26.7	86	17	9.0	63	3 Nor.	F.
		Cypress	23.4	86	15	9.0	62	2 Nor.	Bl.
		Selkirk	21.8	86	17	9.0	62	2 Nor.	Bl.
		Pembina	20.5	86	16	9.0	62	2 Nor.	Bl.
Necessary difference—2.48 bushels					Rainfall—May to August—6.67 inches				

E. MURRAY OAKENFOLD, WELDON

14	9	Thatcher	43.4	93	31	1.5	60	2 Nor.	Dp.
		Canthatch	45.3	93	32	1.5	60	2 Nor.	Dp.
		Cypress	37.2	93	33	3.8	59	2 Nor.	Dp.
		Selkirk	38.6	93	32	1.3	59	2 Nor.	Dp.
		Pembina	40.0	93	31	1.0	60	2 Nor.	Dp.
Necessary difference—4.64 bushels					Rainfall—May to August—5.60 inches				

GEORGE F. STAFFEN, NIPAWIN

14	11	Thatcher	43.1	—	—	—	61	3 Nor.	F.
		Canthatch	43.3	—	—	—	62	3 Nor.	F.
		Cypress	39.1	—	—	—	63	3 Nor.	F.
		Selkirk	37.5	—	—	—	59	3 Nor.	F.
		Pembina	34.4	—	—	—	61	3 Nor.	F.
Necessary difference—6.30 bushels					Rainfall—May to August—incomplete				

WHEAT POOL DISTRICT 15

JOSEPH M. SIKORSKI, ALVENA

15	2	Thatcher	36.2	—	25	1.0	62	4 Nor.	F.
		Canthatch	36.8	—	22	1.0	61	4 Nor.	F.
		Cypress	27.6	—	24	1.0	61	4 Nor.	F.
		Selkirk	36.0	—	21	1.0	60	4 Nor.	F.
		Pembina	28.3	—	21	1.0	60	4 Nor.	F.
Necessary difference—5.06 bushels					Rainfall—May to August—11.88 inches				

EARL W. SWITENKY, MacDOWALL

15	3	Thatcher	52.4	112	38	2.0	60	4 Nor.	F.
		Canthatch	53.0	112	41	1.3	59	4 Nor.	F.
		Cypress	46.6	115	42	4.3	59	4 Nor.	F.
		Selkirk	51.0	111	31	1.5	59	4 Nor.	F.
		Pembina	46.5	114	37	1.5	60	4 Nor.	F.
Yield differences not significant					Rainfall—May to August—7.02 inches				

TED J. REGIER, LAIRD

15	4	Thatcher	12.1	—	—	—	59	2 Nor.	Bl.
		Canthatch	10.9	—	—	—	60	2 Nor.	Bl.
		Cypress	8.2	—	—	—	60	2 Nor.	Bl.
		Selkirk	12.4	—	—	—	59	2 Nor.	Bl.
		Pembina	7.6	—	—	—	59	2 Nor.	Bl.
Necessary difference—2.37 bushels					Rainfall—May to August—incomplete				

AIME G. BRASSARD, DEBDEN

15	7	Thatcher	28.7	—	—	—	64	1 Nor.	—
		Canthatch	29.2	—	—	—	64	1 Nor.	—
		Cypress	22.5	—	—	—	64	1 Nor.	—
		Selkirk	27.8	—	—	—	62	2 Nor.	S.
		Pembina	24.5	—	—	—	63	2 Nor.	S.
Necessary difference—4.07 bushels					Rainfall—May to August—4.52 inches				

Wheat Pool District 15—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
MARILYN E. HERZOG, MAYVIEW									
15	8	Thatcher	39.0	110	28	3.0	60	No. 5	F.
		Canthatch	34.2	111	26	2.7	60	No. 5	F.
		Cypress	26.4	111	27	4.0	59	No. 5	F.
		Selkirk	28.8	111	28	1.3	59	No. 5	F.
		Pembina	26.7	109	27	3.0	60	No. 5	F.
Necessary difference—4.90 bushels			Rainfall—May to August—5.23 inches						

DONALD R. TYCHOLIZ, MEATH PARK									
15	10	Thatcher	40.6	98	31	2.0	64	1 Nor.	—
		Canthatch	36.9	98	30	1.0	64	1 Nor.	—
		Cypress	29.1	99	32	2.8	62	2 Nor.	S.
		Selkirk	32.6	97	27	1.0	62	2 Nor.	S.
		Pembina	31.9	96	27	1.0	63	2 Nor.	S.
Necessary difference—2.75 bushels			Rainfall—May to August—3.90 inches						

MIKE RUDNICKI, SMEATON									
15	11	Thatcher	38.4	94	32	1.0	62	2 Nor.	S.
		Canthatch	37.8	94	33	1.0	63	2 Nor.	S.
		Cypress	31.6	97	28	7.0	63	2 Nor.	S.
		Selkirk	34.1	91	32	1.0	60	2 Nor.	S.
		Pembina	35.2	93	31	2.0	62	2 Nor.	S.
Necessary difference—4.72 bushels			Rainfall—May to August—2.31 inches						

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

15 1 Roger Danku, Meskanaw

WHEAT POOL DISTRICT 16

RONNIE W. KALYN, HAFFORD									
16	2	Thatcher	11.0	—	16	2.8	63	2 Nor.	S.
		Canthatch	10.6	—	16	3.0	63	2 Nor.	S.
		Cypress	8.4	—	15	3.0	63	2 Nor.	S.
		Selkirk	11.0	—	15	2.5	62	2 Nor.	S.
		Pembina	5.5	—	9	2.0	61	2 Nor.	S.
Necessary difference—1.85 bushels.			Rainfall—May to August—6.35 inches.						

BORIS EWANCHUK, WHITKOW									
16	3	Thatcher	50.0	115	30	1.3	61	4 Nor.	F.
		Canthatch	50.9	114	30	1.0	61	4 Nor.	F.
		Cypress	40.9	114	32	4.0	60	4 Nor.	F.
		Selkirk	44.9	114	30	1.3	59	4 Nor.	F.
		Pembina	38.4	114	30	2.0	61	4 Nor.	F.
Necessary difference—4.80 bushels.			Rainfall—May to August—9.17 inches.						

HENRY J. LETOURNEAU, VAWN									
16	4	Thatcher	—	116	36	1.0	60	3 Nor.	Bl., F.
		Canthatch	—	113	32	2.0	62	3 Nor.	Bl., F.
		Cypress	—	110	28	4.0	63	3 Nor.	F.
		Selkirk	—	113	32	2.0	60	3 Nor.	F.
		Pembina	—	110	24	9.0	60	3 Nor.	Bl.
Test damaged by wind—yields not reliable.			Rainfall—May to August—12.57 inches.						

ROBERT J. BARRADELL, PARADISE HILL									
16	7	Thatcher	31.9	120	36	1.0	61	No. 5	F.
		Canthatch	29.4	124	37	1.5	61	No. 5	F.
		Cypress	25.5	124	36	2.0	62	4 Nor.	F.
		Selkirk	28.8	122	36	1.3	60	No. 5	F.
		Pembina	28.0	123	36	1.0	62	4 Nor.	F.
Necessary difference—3.64 bushels.			Rainfall—May to August—8.65 inches.						

JOHN B. WARRINGTON, MERVIN									
16	8	Thatcher	42.1	—	—	—	59	No. 5	F.
		Canthatch	42.2	—	—	—	60	No. 5	F.
		Cypress	36.5	—	—	—	58	No. 5	F.
		Selkirk	44.7	—	—	—	58	No. 5	F.
		Pembina	40.2	—	—	—	59	No. 5	F.
Necessary difference—2.58 bushels			Rainfall—May to August—incomplete						

Wheat Pool District 16—Continued

Dist.	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Straw strength	Lbs. per measured bushel	Commercial grades	Grading remarks
IRIS K. COWELL, MULLINGAR									
16	10	Thatcher	17.2	106	20	1.0	62	2 Nor.	S.
		Canthatch	18.3	107	20	1.0	62	2 Nor.	S.
		Cypress	12.6	107	21	1.0	58	3 Nor.	S.
		Selkirk	16.1	106	20	1.0	61	2 Nor.	S.
		Pembina	8.8	106	18	1.0	58	3 Nor.	S., G.
Necessary difference—2.83 bushels			Rainfall—May to August—6.69 inches						

JAMES NEUFELD, DORINTOSH									
16	11	Thatcher	28.6	—	—	—	63	4 Nor.	F.
		Canthatch	30.7	—	—	—	63	4 Nor.	F.
		Cypress	27.4	—	—	—	62	No. 5	F.
		Selkirk	26.4	—	—	—	63	4 Nor.	F.
		Pembina	22.1	—	—	—	63	4 Nor.	F.
Necessary difference—4.22 bushels			Rainfall—May to August—incomplete						

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

16 9 Donald Andres, Medstead



Supervisors in many Wheat Pool districts were taken on tours in recognition of their work. Here a group of District 8 supervisors learn the fine points of seed grain production from Rupert and Sam Kirkham, well known seed growers at Saltcoats.

Table No. 21

INDIVIDUAL TEST RESULTS — BARLEY

The results of all successful barley tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

IMPORTANT—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion of tests conducted in an area where growing conditions are more or less similar.

For an explanation of the abbreviations under "Grading Remarks," see page 9.

WHEAT POOL DISTRICT 1

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
ONEIL GERVAIS, ALIDA										
1	2	Montcalm	59.8	92	35	3.3	2.0	49	3CW6R	T.
		Keystone	80.7	93	34	1.0	1.0	49	1 Fd.	—
		Betzes	73.1	93	33	3.8	2.0	52	1CW2R	—
		Palliser	75.3	93	34	4.3	2.0	51	3CW2R	—
		Hannchen	55.2	92	34	4.5	2.0	52	1CW2R	—
Necessary difference—9.51 bushels			Rainfall—May to August—11.42 inches							
NICHOLAS F. HENGER, GLEN EWEN										
1	3	Montcalm	46.2	91	36	4.0	2.0	47	3CW6R	T.
		Keystone	50.0	91	29	3.0	2.0	48	1 Fd.	—
		Betzes	51.7	91	27	3.0	2.0	51	1CW2R	—
		Palliser	43.9	91	28	4.0	2.0	49	3CW2R	—
		Hannchen	43.0	91	29	3.8	2.0	52	1CW2R	—
Necessary difference—5.83 bushels			Rainfall—May to August—14.47 inches							
LEONARD P. HAUKENESS, ESTEVAN										
1	5	Montcalm	49.2	80	31	3.0	2.0	46	3CW6R	T.
		Keystone	50.6	80	27	1.0	1.0	48	1 Fd.	—
		Betzes	49.1	80	25	4.0	1.0	50	2CW2R	—
		Palliser	48.4	80	25	2.0	1.0	48	3CW2R	—
		Hannchen	44.7	84	26	4.0	1.0	50	2CW2R	—
Necessary difference—3.10 bushels			Rainfall—May to August—8.82 inches							
GLENN A. BERGUM, TORQUAY										
1	6	Montcalm	53.3	85	—	—	—	49	2CW6R	T.
		Keystone	52.0	87	—	—	—	48	1 Fd.	—
		Betzes	57.3	87	—	—	—	53	1CW2R	—
		Palliser	49.0	88	—	—	—	48	3CW2R	—
		Hannchen	38.0	87	—	—	—	53	1CW2R	—
Necessary difference—9.99 bushels			Rainfall—May to August—6.68 inches							
DAVID J. DOMES, HUME										
1	8	Montcalm	46.0	100	29	2.0	2.5	51	2CW6R	T.
		Keystone	49.4	98	25	1.3	1.5	51	1 Fd.	—
		Betzes	57.8	99	22	1.8	3.0	51	2CW2R	T.
		Palliser	49.7	102	24	3.0	2.5	52	3CW2R	—
		Hannchen	50.6	102	24	1.8	3.0	55	1CW2R	—
Yield differences not significant			Rainfall—May to August—9.28 inches							
GARTH R. GRAHAM, STOUGHTON										
1	9	Montcalm	—	85	35	2.0	2.0	46	3CW6R	W.
		Keystone	—	85	28	1.7	2.0	47	1 Fd.	—
		Betzes	—	85	25	1.8	2.0	49	2CW2R	W.
		Palliser	—	85	32	2.0	2.0	47	3CW2R	—
		Hannchen	—	85	26	1.5	2.0	50	2CW2R	T.
Part of test damaged by grasshoppers—yields not reliable			Rainfall—May to August—13.36 inches							
IVAN B. ZIEGLER, MANOR										
1	10	Montcalm	55.6	88	35	1.0	2.0	47	3CW6R	W.
		Keystone	57.8	88	29	1.0	1.0	47	1 Fd.	—
		Betzes	59.2	92	29	2.0	3.0	52	1CW2R	—
		Palliser	53.4	95	34	2.0	2.0	51	3CW2R	—
		Hannchen	54.5	93	32	2.0	2.0	53	1CW2R	—
Yield differences not significant			Rainfall—May to August—10.74 inches							

WHEAT POOL DISTRICT 2

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seedling-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DANIEL R. JOHNSON, BEAUBIER										
2	1	Montcalm	47.0	90	24	6.3	1.0	51	2CW6R	T.
		Keystone	53.9	87	25	5.0	1.0	48	1 Fd.	—
		Betzes	50.8	93	15	7.5	2.0	54	1CW2R	—
		Palliser	49.8	88	17	7.0	2.0	51	3CW2R	—
		Compana	45.6	89	10	6.8	3.0	52	3CW2R	—
Necessary difference—3.79 bushels			Rainfall—May to August—9.90 inches							
GERRY B. KRAVANYA, MINTON										
2	2	Montcalm	65.8	—	29	4.0	2.8	54	1CW6R	—
		Keystone	66.5	—	26	2.5	2.0	49	1 Fd.	—
		Betzes	63.3	—	23	3.5	2.0	55	1CW2R	—
		Palliser	72.7	—	24	3.8	2.0	53	3CW2R	—
		Compana	61.6	—	23	4.3	2.5	52	3CW2R	—
Part of test damaged—yields not included in district summary			Rainfall—May to August—10.44 inches							
BRIAN B. HILLIER, CORONACH										
2	3	Montcalm	50.7	87	29	3.3	2.3	52	2CW6R	T.
		Keystone	52.9	86	28	3.0	1.3	49	1 Fd.	—
		Betzes	56.2	89	26	2.0	1.8	54	1CW2R	—
		Palliser	56.2	86	30	3.5	1.5	50	3CW2R	—
		Compana	58.3	87	22	3.4	3.0	51	3CW2R	—
Yield differences not significant			Rainfall—May to August—12.14 inches							
RONALD L. BELSHER, ROCK GLEN										
2	4	Montcalm	—	108	14	2.3	3.0	47	1 Fd.	G., T.
		Keystone	—	110	16	1.0	2.0	46	1 Fd.	—
		Betzes	—	111	12	4.5	3.0	50	3CW2R	G.
		Palliser	—	107	14	1.0	2.0	47	3CW2R	—
		Compana	—	108	12	3.0	1.0	47	3CW2R	—
Test damaged—yields not reliable			Rainfall—May to August—12.56 inches							
R. GRANT LANGMAN, MELAVAL										
2	6	Montcalm	29.3	—	—	—	—	50	2CW6R	T.
		Keystone	24.3	—	—	—	—	48	1 Fd.	—
		Betzes	28.5	—	—	—	—	52	1CW2R	—
		Palliser	32.6	—	—	—	—	47	3CW2R	—
		Compana	36.4	—	—	—	—	49	3CW2R	—
Yield differences not significant			Rainfall—May to August—incomplete							
TERRY B. MONEO, WOOD MOUNTAIN										
2	7	Montcalm	54.0	—	26	1.0	2.0	50	2CW6R	T.
		Keystone	42.9	—	22	1.3	1.3	49	1 Fd.	—
		Betzes	46.2	—	21	2.0	2.0	53	1CW2R	G.
		Palliser	67.4	—	23	1.0	1.3	51	3CW2R	—
		Compana	66.0	—	19	2.5	2.8	51	3CW2R	—
Necessary difference—10.18 bushels			Rainfall—May to August—10.64 inches							
GARRY J. KARST, ASSINIBOIA										
2	8	Montcalm	—	—	25	1.0	1.0	51	2CW6R	T.
		Keystone	—	—	30	1.0	1.0	50	1 Fd.	—
		Betzes	—	—	24	1.0	2.8	53	1CW2R	—
		Palliser	—	—	24	1.0	2.0	52	3CW2R	—
		Compana	—	—	27	1.0	2.0	51	3CW2R	—
Part of test damaged—yields not reliable			Rainfall—May to August—incomplete							
BLAIR T. KNUDSEN, GLASNEVIN										
2	9	Montcalm	52.3	89	29	1.8	2.5	49	3CW6R	T.
		Keystone	51.5	89	24	2.0	1.8	48	1 Fd.	—
		Betzes	45.4	89	25	2.5	3.0	52	3CW2R	G.
		Palliser	51.6	89	27	2.0	2.0	50	3CW2R	—
		Compana	40.8	87	16	2.5	2.5	49	3CW2R	—
Necessary difference—5.89 bushels			Rainfall—May to August—11.73 inches							
GERALD PICHE, HARPTREE										
2	11	Montcalm	38.6	89	16	1.5	1.0	51	2CW6R	T.
		Keystone	38.7	89	17	2.0	1.0	50	1 Fd.	—
		Betzes	37.3	89	17	1.8	1.0	55	1CW2R	—
		Palliser	41.4	89	18	1.8	1.0	52	3CW2R	—
		Compana	37.0	89	18	1.5	1.0	50	3CW2R	—
Yield differences not significant			Rainfall—May to August—10.94 inches							

WHEAT POOL DISTRICT 3

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seedling-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
DELMER D. FORZLEY, McCORD										
3	1	Montcalm	52.8	102	44	2.0	2.0	50	2CW6R	—
		Keystone	42.2	102	42	2.0	1.0	48	1 Fd.	—
		Betzes	48.3	102	39	2.0	1.0	52	2CW2R	T.
		Palliser	52.5	102	44	2.0	1.0	48	3CW2R	—
		Compana	46.9	99	36	2.0	1.0	48	3CW2R	—
Yield differences not significant.			Rainfall—May to August—8.87 inches.							

GEORGE E. ANDERSON, VAL MARIE										
3	2	Montcalm	21.1	—	—	—	—	46	1 Fd.	T. W.
		Keystone	28.9	—	—	—	—	44	2 Fd.	T. W.
		Betzes	37.1	—	—	—	—	48	1 Fd.	T. W.
		Palliser	37.8	—	—	—	—	44	2 Fd.	T. W.
		Compana	26.7	—	—	—	—	43	8 Fd.	T. W.
Necessary difference—7.90 bushels.			Rainfall—May to August—8.60 inches.							

IAN K. SHIRLEY, CLIMAX										
3	3	Montcalm	—	98	20	2.0	2.0	35	3 Fd.	—
		Keystone	—	98	18	2.0	1.0	35	3 Fd.	—
		Betzes	—	98	14	1.0	2.0	40	3 Fd.	—
		Palliser	—	98	15	3.0	2.0	43	2 Fd.	—
		Compana	—	98	14	3.0	3.0	46	1 Fd.	—
Test damaged by grasshoppers—yields not reliable.			Rainfall—May to August—11.90 inches.							

RONALD B. JOHNSON, OXARAT										
3	5	Montcalm	9.3	95	17	2.0	2.0	48	3CW6R	G.
		Keystone	16.3	96	18	2.0	2.0	49	1 Fd.	—
		Betzes	23.1	98	17	2.5	2.0	53	1CW2R	—
		Palliser	27.3	95	19	2.3	2.0	53	3CW2R	—
		Compana	26.1	91	18	2.2	2.0	51	3CW2R	—
Necessary difference—2.19 bushels.			Rainfall—May to August—6.40 inches.							

STEWART D. ADAM, EASTEND										
3	6	Montcalm	30.7	—	29	1.8	3.0	52	3CW6R	T.
		Keystone	54.5	—	27	2.0	1.0	51	1 Fd.	—
		Betzes	56.7	—	22	2.3	3.0	54	1CW2R	—
		Palliser	64.4	—	26	2.0	2.0	52	3CW2R	—
		Compana	66.6	—	17	3.0	2.0	53	3CW2R	—
Necessary difference—7.55 bushels.			Rainfall—May to August—9.65 inches.							

ORLAND H. WILLS, EASTEND										
3	7	Montcalm	—	—	—	—	—	48	1 Fd.	G..T.
		Keystone	—	—	—	—	—	50	1 Fd.	—
		Betzes	—	—	—	—	—	50	1 Fd.	G..T.
		Palliser	—	—	—	—	—	47	1 Fd.	G..T.
		Compana	—	—	—	—	—	46	1 Fd.	G..T.
Part of test damaged—yields not reliable.			Rainfall—May to August—11.53 inches.							

RAY R. RABAEY, SHAUNAVON										
3	8	Montcalm	—	104	25	2.0	3.0	44	2 Fd.	T..G.
		Keystone	—	107	22	1.0	1.0	47	1 Fd.	—
		Betzes	—	105	23	2.0	2.0	46	1 Fd.	T..G.
		Palliser	—	104	21	1.0	1.0	47	1 Fd.	T..G.
		Compana	—	100	17	2.0	1.0	44	2 Fd.	T..G.
Part of test damaged—yields not reliable.			Rainfall—May to August—9.76 inches.							

DAVID A. CALVIN, HAZENMORE										
3	10	Montcalm	23.2	97	26	1.0	2.0	48	3CW6R	W.
		Keystone	42.0	99	24	1.0	1.0	48	1 Fd.	—
		Betzes	45.8	96	23	1.0	3.0	52	3CW2R	W.
		Palliser	49.0	99	24	1.0	2.0	50	3CW2R	—
		Compana	45.8	90	20	1.0	2.0	50	3CW2R	—
Necessary difference—7.23 bushels.			Rainfall—May to August—8.64 inches.							

WHEAT POOL DISTRICT 4

ALLAN W. SANDAU, MAPLE CREEK										
4	2	Montcalm	33.5	76	30	1.5	2.5	47	1 Fd.	T.
		Keystone	36.3	76	28	1.3	1.3	46	1 Fd.	—
		Betzes	35.7	75	25	1.3	3.0	47	1 Fd.	T.
		Palliser	37.4	76	27	1.5	1.5	43	3 Fd.	T.
		Compana	41.0	75	22	2.3	2.5	46	1 Fd.	T.
Yield differences not significant.			Rainfall—May to August—11.04 inches.							

Wheat Pool District 4—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
MARLENE K. PETERS, LINACRE										
4	7	Montcalm	—	91	18	1.0	1.3	43	2 Fd.	T.
		Keystone	—	92	12	2.0	1.8	40	3 Fd.	—
		Betzes	—	91	12	3.0	3.0	48	1 Fd.	T.
		Palliser	—	91	18	1.0	2.0	42	3 Fd.	—
		Compana	—	91	18	1.0	1.0	40	3 Fd.	—
Test damaged—yields not reliable.			Rainfall—May to August—6.38 inches.							

STANLEY M. KOSOLOFSKI, PRELATE										
4	8	Montcalm	33.3	86	20	2.0	—	49	2CW6R	T.
		Keystone	34.1	86	20	2.0	—	48	1 Fd.	G.
		Betzes	44.5	86	20	2.0	—	53	1CW2R	—
		Palliser	29.1	86	20	2.0	—	47	3CW2R	—
		Compana	30.1	80	20	2.0	—	51	3CW2R	—
Yield differences not significant.			Rainfall—May to August—7.93 inches.							

VERNON F. BALDWIN, CABRI										
4	10	Montcalm	35.8	—	—	—	—	49	1 Fd.	G., T.
		Keystone	33.0	—	—	—	—	47	1 Fd.	—
		Betzes	48.7	—	—	—	—	51	1 Fd.	G.
		Palliser	45.6	—	—	—	—	48	1 Fd.	G.
		Compana	47.9	—	—	—	—	50	3CW2R	—
Part of test damaged—yields not included in district summary.			Rainfall—May to August—10.79 inches.							

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

4 2 Marvin C. Zollner, Golden Prairie.

WHEAT POOL DISTRICT 5

RICHARD F. SADLEMYER, MOSSBANK										
5	1	Montcalm	50.5	—	16	3.5	1.8	54	1CW6R	—
		Keystone	60.2	—	15	3.3	1.8	51	1 Fd.	—
		Betzes	54.6	—	13	3.8	2.0	55	1CW2R	—
		Palliser	61.5	—	15	4.0	2.0	53	3CW2R	—
		Compana	42.3	—	14	4.5	2.0	54	3CW2R	—
Necessary difference—13.20 bushels.			Rainfall—May to August—6.97 inches.							

MARK AND GREGORY MULATZ, ARBUTHNOT										
5	2	Montcalm	30.0	100	25	3.0	2.0	48	3CW6R	T.
		Keystone	21.7	104	19	3.0	2.5	47	1 Fd.	—
		Betzes	27.1	104	20	3.0	2.5	51	1CW2R	—
		Palliser	34.0	105	23	3.0	2.5	49	3CW2R	—
		Compana	22.8	94	16	3.0	2.0	50	3CW2R	—
Necessary difference—3.63 bushels.			Rainfall—May to August—8.93 inches.							

MURRAY J. PAUL, VESPER										
5	3	Montcalm	29.0	—	—	—	—	51	3CW6R	W.
		Keystone	35.0	—	—	—	—	49	1 Fd.	—
		Betzes	38.5	—	—	—	—	51	3CW2R	G.
		Palliser	35.6	—	—	—	—	47	1 Fd.	G.
		Compana	33.1	—	—	—	—	50	3CW2R	—
Yield differences not significant.			Rainfall—May to August—7.00 inches.							

ELLWOOD L. BARKMAN, FLOWING WELL										
5	5	Montcalm	—	100	24	5.0	2.0	46	1 Fd.	T.
		Keystone	—	102	20	3.0	2.0	45	2 Fd.	T.
		Betzes	—	102	19	4.0	3.0	44	2 Fd.	T.
		Palliser	—	101	20	5.0	2.0	42	3 Fd.	T.
		Compana	—	100	16	5.0	3.0	46	1 Fd.	W.
Test damaged by hail—yields not reliable.			Rainfall—May to August—8.71 inches.							

CHRISTINE L. ANDERSON, CODERRE										
5	6	Montcalm	47.5	90	28	3.0	2.5	49	2CW6R	T.
		Keystone	49.8	93	25	2.5	1.0	49	1 Fd.	—
		Betzes	49.5	91	23	2.5	3.0	54	1CW2R	—
		Palliser	50.0	91	26	2.5	2.3	50	3CW2R	—
		Compana	43.8	85	20	5.0	3.0	53	3CW2R	—
Necessary difference—3.90 bushels.			Rainfall—May to August—9.22 inches.							

Wheat Pool District 5—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
JIM A. MCGILLIVRAY, CENTRAL BUTTE										
5	9	Montcalm	18.3	93	18	2.0	2.0	46	3CW6R	W.
		Keystone	25.5	92	18	2.0	1.0	47	1 Fd.	—
		Betztes	26.5	92	16	2.3	3.0	52	2CW2R	W.
		Palliser	31.1	93	19	2.0	2.0	49	3CW2R	—
		Compana	25.5	86	16	2.0	1.0	51	3CW2R	—
Necessary difference—3.19 bushels.			Rainfall—May to August—8.31 inches.							

GREGORY VAN LOOSEN, ERNFOLD										
5	10	Montcalm	10.9	79	16	2.3	1.8	48	3CW6R	T.
		Keystone	16.2	87	17	2.3	1.8	47	1 Fd.	—
		Betztes	16.1	84	14	2.5	2.3	53	1CW2R	—
		Palliser	20.0	89	16	2.5	2.3	50	3CW2R	—
		Compana	15.0	82	14	2.8	2.0	52	3CW2R	—
Necessary difference—3.78 bushels.			Rainfall—May to August—10.24 inches.							

WHEAT POOL DISTRICT 6

EUGENE SOBCHUK, LANG										
6	1	Montcalm	62.0	84	23	1.0	1.0	50	3CW6R	T.
		Keystone	61.9	87	22	1.0	1.0	51	1 Fd.	—
		Betztes	64.9	85	23	1.0	2.0	53	1CW2R	—
		Palliser	59.5	87	22	1.0	2.0	50	3CW2R	—
		Hannchen	66.8	86	22	1.0	2.0	53	1CW2R	—
Yield differences not significant.			Rainfall—May to August—11.81 inches.							

DONALD C. BROOKS, DUMMER										
6	3	Montcalm	41.6	—	—	—	—	49	3CW6R	T.
		Keystone	43.3	—	—	—	—	47	1 Fd.	—
		Betztes	46.8	—	—	—	—	50	2CW2R	T.
		Palliser	47.3	—	—	—	—	49	3CW2R	—
		Hannchen	40.8	—	—	—	—	50	2CW2R	T.
Yield differences not significant.			Rainfall—May to August—10.96 inches.							

WILLIAM AND EDWARD SCHNITZLER, TRIAX										
6	4	Montcalm	31.6	84	28	1.0	1.3	48	3CW6R	S.
		Keystone	44.5	84	29	1.0	1.0	48	1 Fd.	—
		Betztes	34.5	80	24	1.0	2.0	54	3CW2R	S.
		Palliser	43.2	84	28	1.0	1.3	48	3CW2R	—
		Hannchen	21.9	82	24	1.0	2.3	54	3CW2R	S.
Necessary difference—9.79 bushels.			Rainfall—May to August—10.43 inches.							

ROBERT S. FORMAN, SPRING VALLEY										
6	5	Montcalm	80.6	—	35	2.0	2.0	53	3CW6R	W.
		Keystone	80.5	—	32	2.0	1.0	52	1 Fd.	—
		Betztes	100.1	—	29	4.0	2.3	54	3CW2R	W.
		Palliser	87.9	—	33	2.0	1.7	53	3CW2R	—
		Hannchen	80.6	—	32	3.3	2.8	56	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—10.61 inches.							

LARRY J. CALCRAFT, INDIAN HEAD										
6	8	Montcalm	58.8	—	25	2.0	2.8	50	3CW6R	T.
		Keystone	65.9	—	24	1.3	2.0	51	1 Fd.	—
		Betztes	69.2	—	24	1.8	2.8	55	1CW2R	—
		Palliser	73.4	—	25	1.8	2.3	51	3CW2R	—
		Hannchen	66.7	—	25	1.5	3.0	54	1CW2R	—
Necessary difference—8.89 bushels.			Rainfall—May to August—8.72 inches.							

MARGARET T. SCHICK, LORLIE										
6	9	Montcalm	58.8	91	23	1.0	1.0	50	3CW6R	T.
		Keystone	54.3	91	21	1.0	1.0	49	1 Fd.	—
		Betztes	62.0	95	19	3.0	3.0	53	1CW2R	—
		Palliser	58.8	97	18	2.0	1.0	51	3CW2R	—
		Hannchen	60.9	95	19	3.0	3.0	55	1CW2R	—
Yield differences not significant.			Rainfall—May to August—7.71 inches.							

WHEAT POOL DISTRICT 7

C. ORVILLE FISKE, KELSO										
7	1	Montcalm	—	97	28	1.5	1.5	50	3CW6R	W.
		Keystone	—	96	23	2.0	1.0	49	1 Fd.	—
		Betztes	—	96	23	2.2	2.0	54	1CW2R	—
		Palliser	—	98	23	2.0	1.8	53	3CW2R	—
		Hannchen	—	98	24	1.8	1.5	55	1CW2R	—
Part of test damaged by livestock—yields not reliable.			Rainfall—May to August—11.17 inches.							

Wheat Pool District 7—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
------	-----------	-----------	---------------------	-----------------------	---------------------	----------------	---------------	--------------------------	-------------------	-----------------

JIM A. FRAPE, MOOSOMIN

7	2	Montcalm	55.7	—	26	2.0	—	48	3CW6R	T.
		Keystone	56.0	—	26	1.3	—	48	1 Fd.	—
		Betzes	47.0	—	25	1.3	—	52	3CW2R	W.
		Palliser	47.6	—	23	2.0	—	50	3CW2R	—
		Hannchen	48.7	—	25	1.0	—	52	3CW2R	W.

Necessary difference—6.27 bushels.

Rainfall—May to August—12.81 inches.

KENNETH D. EASTON, KENNEDY

7	3	Montcalm	63.9	90	29	2.3	3.0	48	3CW6R	T.
		Keystone	72.0	91	28	2.0	1.0	47	1 Fd.	—
		Betzes	70.4	90	27	3.5	3.0	53	3CW2R	W.
		Palliser	77.4	91	28	3.5	2.0	50	3CW2R	—
		Hannchen	63.3	92	27	5.0	2.2	51	3CW2R	W.

Yield differences not significant.

Rainfall—May to August—9.68 inches.

DAVID JOHNSTONE AND HERB REICH, FILLMORE

7	5	Montcalm	28.4	99	23	2.3	1.5	49	3CW6R	T.
		Keystone	29.9	99	19	1.5	1.3	47	1 Fd.	—
		Betzes	31.3	99	19	5.0	3.0	51	1CW2R	—
		Palliser	36.8	99	22	3.5	2.0	47	1 Fd.	T.
		Hannchen	29.9	99	22	2.3	2.0	53	1CW2R	T.

Yield differences not significant.

Rainfall—May to August—6.47 inches.

TED J. MALACH, CANDIAC

7	6	Montcalm	34.0	93	28	2.0	2.0	50	3CW6R	T.
		Keystone	37.2	94	26	1.0	1.5	48	1 Fd.	—
		Betzes	37.7	93	25	1.5	2.8	53	3CW2R	W.
		Palliser	40.4	93	27	1.8	2.0	51	3CW2R	—
		Hannchen	43.1	93	27	1.8	2.8	54	3CW2R	W.

Necessary difference—3.74 bushels.

Rainfall—May to August—6.59 inches.

E. DAVID OLIVE, WOLSELEY

7	7	Montcalm	65.0	88	—	1.0	3.0	49	3CW6R	W.
		Keystone	60.2	90	—	1.0	2.0	48	1 Fd.	—
		Betzes	61.0	89	—	1.0	1.0	53	3CW2R	W.
		Palliser	64.7	90	—	1.0	2.0	51	3CW2R	—
		Hannchen	60.2	90	—	1.0	2.0	53	3CW2R	W.

Yield differences not significant.

Rainfall—May to August—11.41 inches.

EVERETT M. SMART, HAZELCLIFFE

7	9	Montcalm	74.4	90	31	2.0	3.0	51	3CW6R	W.
		Keystone	73.4	90	27	2.0	1.0	50	1 Fd.	—
		Betzes	87.5	87	24	2.0	2.0	55	3CW2R	W.
		Palliser	84.2	92	27	1.5	1.0	53	3CW2R	—
		Hannchen	86.9	90	28	1.5	1.5	55	3CW2R	W.

Necessary difference—4.31 bushels.

Rainfall—May to August—10.29 inches.

ANGELA M. A. BRUCH, KILLALY

7	11	Montcalm	36.6	68	23	1.0	1.0	43	2 Fd.	T.
		Keystone	35.2	70	17	1.0	1.0	44	2 Fd.	T.
		Betzes	40.4	70	17	1.0	1.0	49	2CW2R	T.
		Palliser	38.2	70	19	1.0	1.0	44	1 Fd.	T.
		Hannchen	40.3	70	19	1.0	1.0	49	2CW2R	T.

Yield differences not significant.

Rainfall—May to August—7.00 inches.

WHEAT POOL DISTRICT 8

GARRY N. MATECHUK, KAMSACK

8	1	Montcalm	48.1	—	—	—	—	48	1 Fd.	W.
		Keystone	53.9	—	—	—	—	47	1 Fd.	—
		Betzes	45.4	—	—	—	—	52	3CW2R	W.
		Palliser	50.8	—	—	—	—	49	1 Fd.	W.
		Hannchen	47.1	—	—	—	—	52	3CW2R	W.

Yield differences not significant.

Rainfall—May to August—Incomplete.

JAMES R. TOMKINS, SALTCOATS

8	2	Montcalm	38.6	—	22	1.3	2.0	46	1 Fd.	T.
		Keystone	44.2	—	19	1.0	1.0	45	2 Fd.	—
		Betzes	47.3	—	19	1.3	3.0	48	2CW2R	—
		Palliser	50.4	—	22	1.3	1.5	49	3CW2R	—
		Hannchen	45.9	—	18	1.3	2.8	52	1CW2R	—

Yield differences not significant.

Rainfall—May to August—5.86 inches.

Wheat Pool District 8—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
DONALD B. KIRK, COLMER										
8	3	Montcalm	60.5	—	25	2.3	—	48	3CW6R	T.
		Keystone	68.6	—	24	2.0	—	49	1 Fd.	—
		Betzes	62.2	—	21	1.0	—	51	3CW2R	W.
		Palliser	57.2	—	25	3.0	—	50	3CW2R	—
		Hannchen	53.4	—	24	2.0	—	52	3CW2R	W.
Necessary difference—5.82 bushels.			Rainfall—May to August—7.54 inches.							
DONALD A. CHADNEY, SPRINGSIDE										
8	4	Montcalm	70.7	—	—	—	—	47	1 Fd.	F.
		Keystone	66.7	—	—	—	—	46	1 Fd.	—
		Betzes	62.5	—	—	—	—	50	1 Fd.	F.
		Palliser	68.4	—	—	—	—	48	1 Fd.	F.
		Hannchen	64.9	—	—	—	—	53	1 Fd.	F.
Yield differences not significant.			Rainfall—May to August—7.23 inches.							
ALLAN W. KONKIN, KAMSACK										
8	5	Montcalm	63.8	—	—	—	—	50	3CW6R	W.
		Keystone	61.1	—	—	—	—	47	1 Fd.	—
		Betzes	67.9	—	—	—	—	55	1CW2R	—
		Palliser	66.4	—	—	—	—	51	3CW2R	—
		Hannchen	67.4	—	—	—	—	56	1CW2R	—
Yield differences not significant.			Rainfall—May to August—5.91 inches.							
MYLES J. ZAWISLAK, AMSTERDAM										
8	6	Montcalm	72.1	—	36	4.3	2.0	50	1 Fd.	W.
		Keystone	72.4	—	39	4.0	1.0	48	1 Fd.	—
		Betzes	66.2	—	34	4.5	2.3	50	1 Fd.	W.
		Palliser	71.8	—	35	5.3	2.8	48	1 Fd.	W.
		Hannchen	65.6	—	35	4.0	2.0	51	1 Fd.	W.
Yield differences not significant.			Rainfall—May to August—7.89 inches.							
BENNIE D. TABIN, INVERMAY										
8	7	Montcalm	44.1	98	20	1.0	1.0	50	3CW6R	W.
		Keystone	38.8	98	16	1.0	1.0	49	1 Fd.	—
		Betzes	46.8	98	20	1.0	3.0	53	3CW2R	W.
		Palliser	48.0	98	20	1.0	1.0	52	3CW2R	—
		Hannchen	47.2	98	20	1.0	1.0	54	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—9.31 inches.							
Test discarded on account of damage by flooding, pests, hail, drought or other causes:										
8	8	Barry A. Gromnisky, Sturgis.								

WHEAT POOL DISTRICT 9

LAWRENCE P. JANKOSKI, ITUNA										
9	1	Montcalm	90.2	—	21	2.0	3.0	48	3CW6R	W.
		Keystone	88.7	—	19	2.0	3.0	47	1 Fd.	—
		Betzes	86.4	—	18	2.0	3.0	53	3CW2R	W.
		Palliser	92.5	—	20	2.0	3.0	50	3CW2R	—
		Hannchen	91.7	—	18	2.0	3.0	54	3CW2R	W.
Yield differences not significant.					Rainfall—May to August—7.89 inches.					
WAYNE A. KAHAN, LIPTON										
9	2	Montcalm	57.0	—	—	1.8	—	49	3CW6R	W.
		Keystone	68.4	—	—	2.0	—	47	1 Fd.	—
		Betzes	57.6	—	—	5.3	—	51	3CW2R	W.
		Palliser	61.8	—	—	3.0	—	48	3CW2R	—
		Hannchen	63.1	—	—	2.3	—	52	3CW2R	W.
Yield differences not significant.					Rainfall—May to August—9.97 inches.					
ARDEN H. START, LESTOCK										
9	3	Montcalm	80.4	100	33	2.5	1.8	48	1 Fd.	T.
		Keystone	76.3	101	30	2.3	1.8	49	1 Fd.	—
		Betzes	56.2	101	28	3.0	1.5	51	3CW2R	W.
		Palliser	73.9	102	28	2.8	1.5	49	3CW2R	—
		Hannchen	75.0	101	31	2.3	2.0	54	3CW2R	W.
Yield differences not significant.					Rainfall—May to August—8.67 inches.					
JOHN G. HARVEY, BULYEA										
9	4	Montcalm	37.5	91	29	2.0	2.8	49	2CW6R	T.
		Keystone	48.8	93	28	1.8	2.0	49	1 Fd.	—
		Betzes	56.1	92	24	1.3	2.8	53	1CW2R	—
		Palliser	58.1	91	26	1.5	2.3	50	3CW2R	—
		Hannchen	54.9	92	25	1.5	2.5	53	1CW2R	—
Necessary difference—13.33 bushels.					Rainfall—May to August—7.06 inches.					

Wheat Pool District 9—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com-mercial grades	Grading remarks
GORDON M. SCHMIDT, DUVAL										
9	5	Montcalm	44.8	90	24	1.0	3.0	50	2CW6R	T.
		Keystone	56.0	90	25	1.0	1.0	48	1 Fd.	—
		Betzes	54.9	90	22	1.0	1.3	53	1CW2R	—
		Palliser	61.8	90	24	1.0	2.3	50	3CW2R	—
		Hannchen	50.5	90	24	1.0	1.0	55	1CW2R	—
Necessary difference—5.62 bushels.			Rainfall—May to August—7.33 inches.							

CLARENCE W. KONSCHUK, NOKOMIS										
9	6	Montcalm	47.7	88	23	2.0	2.8	49	2CW6R	T.
		Keystone	54.7	93	20	2.0	1.0	50	1 Fd.	—
		Betzes	58.6	93	18	2.0	1.0	54	1CW2R	—
		Palliser	59.6	95	20	3.0	1.0	48	3CW2R	—
		Hannchen	57.1	95	21	2.0	1.5	55	1CW2R	—
Necessary difference—7.29 bushels.			Rainfall—May to August—8.05 inches.							

MYRON A. SEREDA, WEST BEND										
9	9	Montcalm	35.1	100	20	2.0	2.3	45	1 Fd.	T.
		Keystone	35.4	99	16	1.3	2.0	45	2 Fd.	—
		Betzes	40.4	99	16	2.0	3.0	53	1CW2R	—
		Palliser	44.8	101	18	2.8	2.8	49	3CW2R	—
		Hannchen	41.6	100	19	2.0	2.5	53	1CW2R	—
Necessary difference—4.50 bushels.			Rainfall—May to August—8.67 inches.							

DONALD HOLMSTROM, LESLIE										
9	10	Montcalm	14.8	94	14	1.0	1.0	43	2 Fd.	—
		Keystone	12.3	92	15	1.0	1.0	46	1 Fd.	—
		Betzes	21.1	92	13	1.0	1.0	52	1CW2R	—
		Palliser	17.5	92	14	1.0	1.0	49	3CW2R	—
		Hannchen	21.6	93	13	1.0	1.0	53	1CW2R	—
Necessary difference—2.61 bushels.			Rainfall—May to August—6.41 inches.							

WHEAT POOL DISTRICT 10

O. GLEN GUNNINGHAM, CHAMBERLAIN										
10	1	Montcalm	38.5	78	21	1.8	2.8	47	1 Fd.	T.
		Keystone	47.9	78	21	1.3	2.0	47	1 Fd.	—
		Betzes	46.2	82	22	1.0	2.3	50	2CW2R	T.
		Palliser	49.5	82	21	2.0	2.8	47	1 Fd.	T.
		Compana	45.7	78	20	2.0	2.5	47	1 Fd.	I.
Necessary difference—5.74 bushels.			Rainfall—May to August—9.69 inches.							

D. LEE CROWLEY, LAWSON										
10	2	Montcalm	40.4	87	26	1.0	1.8	46	1 Fd.	W.
		Keystone	28.6	87	23	1.0	1.0	46	1 Fd.	W.
		Betzes	45.7	85	23	1.0	1.7	47	3CW2R	W.
		Palliser	44.9	90	24	1.0	1.0	49	3CW2R	—
		Compana	43.2	81	23	1.0	2.0	47	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—6.91 inches.							

LORNE J. SHEPPARD, DEMAINE										
10	3	Montcalm	48.6	80	25	1.0	2.0	46	3CW6R	T.
		Keystone	46.5	80	23	1.0	1.0	47	1 Fd.	—
		Betzes	45.7	79	18	1.0	2.0	50	2CW2R	T.
		Palliser	50.4	83	21	1.0	1.5	49	3CW2R	—
		Compana	40.0	76	19	1.0	1.0	48	3CW2R	—
Necessary difference—4.32 bushels.			Rainfall—May to August—8.38 inches.							

ROBERT W. HAUGEN, ARDATH										
10	5	Montcalm	30.1	79	30	1.8	2.5	49	3CW6R	T.
		Keystone	41.6	78	24	1.8	1.3	48	1 Fd.	—
		Betzes	46.0	79	21	1.8	3.0	52	1CW2R	—
		Palliser	43.8	78	26	1.3	2.0	51	3CW2R	—
		Compana	46.0	79	20	2.5	2.8	52	3CW2R	—
Necessary difference—3.88 bushels.			Rainfall—May to August—7.34 inches.							

KEN L. WEBSTER, ELBOW										
10	6	Montcalm	9.1	—	17	2.0	1.8	50	3CW6R	G.
		Keystone	19.6	—	17	2.0	1.5	48	1 Fd.	—
		Betzes	22.6	—	17	2.0	2.2	51	3CW2R	W.
		Palliser	23.9	—	18	2.0	1.6	47	3CW2R	—
		Compana	23.1	—	17	2.0	2.8	50	3CW2R	—
Necessary difference—4.43 bushels.			Rainfall—May to August—8.30 inches.							

Wheat Pool District 10—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding- ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
ALLEN W. PIEPER, SIMPSON										
10	8	Montcalm	50.7	92	26	2.0	3.0	50	3CW6R	T.
		Keystone	54.4	92	24	1.0	1.0	50	1 Fd.	—
		Betzes	54.2	90	21	2.0	2.0	53	1CW2R	—
		Palliser	56.7	97	23	2.0	3.0	51	3CW2R	—
		Compana	50.7	88	20	2.0	2.0	50	3CW2R	—
Yield differences not significant.			Rainfall—May to August—8.38 inches.							

TOMMY E. LAWTON, TESSIER										
10	10	Montcalm	17.4	82	15	2.0	1.0	49	3CW6R	T.
		Keystone	17.3	82	13	1.0	1.0	50	1 Fd.	—
		Betzes	19.7	80	14	1.0	2.0	52	1CW2R	—
		Palliser	22.8	79	14	2.0	1.0	51	3CW2R	—
		Compana	17.6	71	13	1.0	1.0	53	3CW2R	—
Yield differences not significant.			Rainfall—May to August—7.83 inches.							

Test discarded on account of damage by flooding, pests, hail, drought or other causes:
10 9 Charles Schwanbeck, Hanley.

WHEAT POOL DISTRICT 11

RALPH L. BARLOW, KYLE										
11	1	Montcalm	41.0	110	30	1.0	2.0	46	2 Fd.	G., T.
		Keystone	44.7	110	25	1.0	1.0	47	1 Fd.	—
		Betzes	50.1	104	21	7.0	3.0	54	3CW2R	W.
		Palliser	53.7	104	25	2.0	2.0	51	3CW2R	—
		Compana	44.9	91	22	1.0	1.0	50	1 Fd.	W.
Necessary difference—4.47 bushels.			Rainfall—May to August—7.50 inches.							

CLIFFORD A. CRICKETT, BICKLEIGH										
11	2	Montcalm	69.3	—	26	1.3	3.0	50	2CW6R	T.
		Keystone	72.9	—	22	1.0	1.6	48	1 Fd.	—
		Betzes	74.7	—	19	1.7	1.7	55	1CW2R	—
		Palliser	74.6	—	23	1.3	1.3	50	3CW2R	—
		Compana	61.7	—	17	1.0	2.0	53	3CW2R	—
Necessary difference—4.71 bushels.			Rainfall—May to August—11.17 inches.							

DONNA D. HULGAN, GLIDDEN										
11	3	Montcalm	78.4	87	35	4.0	2.5	50	3CW6R	T.
		Keystone	81.7	87	32	3.5	1.8	51	1 Fd.	—
		Betzes	85.5	87	26	3.5	2.5	53	1CW2R	—
		Palliser	85.9	87	31	4.3	2.0	50	3CW2R	—
		Compana	68.3	84	22	3.5	2.0	49	3CW2R	—
Necessary difference—7.35 bushels.			Rainfall—May to August—9.30 inches.							

JOE FRIEDT, MERID										
11	5	Montcalm	69.0	—	—	—	—	48	3CW6R	T.
		Keystone	79.4	—	—	—	—	50	1 Fd.	—
		Betzes	80.2	—	—	—	—	51	1CW2R	—
		Palliser	85.8	—	—	—	—	49	3CW2R	—
		Compana	64.0	—	—	—	—	49	3CW2R	—
Necessary difference—10.27 bushels.			Rainfall—May to August—7.83 inches.							

GREGORY R. MARTIN, HERSCHEL										
11	8	Montcalm	43.7	100	30	4.0	2.0	47	2 Fd.	G., T.
		Keystone	51.7	103	25	1.0	1.0	46	2 Fd.	G., T.
		Betzes	56.5	100	23	2.0	3.0	50	1 Fd.	G.
		Palliser	63.7	103	22	2.0	2.0	49	1 Fd.	G.
		Compana	48.8	93	14	1.0	2.0	51	1 Fd.	W.
Necessary difference—6.60 bushels.			Rainfall—May to August—9.59 inches.							

RICHARD SCHULTZ, COLEVILLE										
11	9	Montcalm	67.4	—	40	5.0	—	49	3CW6R	W.
		Keystone	60.6	—	38	1.5	—	49	1 Fd.	—
		Betzes	47.0	—	31	6.8	—	51	3CW2R	W.
		Palliser	60.4	—	36	2.0	—	48	3CW2R	W.
		Compana	50.1	—	23	3.5	—	46	1 Fd.	W.
Necessary difference—12.43 bushels.			Rainfall—May to August—9.74 inches.							

DALE A. SCHMALE, MAJOR										
11	10	Montcalm	69.2	—	—	—	1.3	48	3CW6R	W.
		Keystone	67.3	—	—	—	2.0	46	1 Fd.	—
		Betzes	66.7	—	—	—	3.0	48	3CW2R	W.
		Palliser	72.9	—	—	—	1.8	46	1 Fd.	—
		Compana	47.7	—	—	—	2.3	46	1 Fd.	T.
Necessary difference—5.87 bushels.			Rainfall—May to August—8.46 inches.							

WHEAT POOL DISTRICT 12

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seed- ing- ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
LESLIE H. POTTER, BIGGAR										
12	1	Montcalm	27.8	86	13	3.0	2.0	48	1 Fd.	W.
		Keystone	28.7	86	15	2.0	1.5	46	1 Fd.	—
		Betzes	28.0	86	13	3.0	2.0	51	3CW2R	W.
		Palliser	32.9	93	12	3.0	1.0	48	3CW2R	—
		Compana	20.0	86	10	3.0	1.0	49	3CW2R	—
Necessary difference—3.06 bushels.			Rainfall—May to August—9.15 inches.							

EDWIN C. BECKER, SPINNEY HILL										
12	2	Montcalm	18.8	85	19	1.0	1.5	46	1 Fd.	W.
		Keystone	19.2	83	15	1.5	1.0	47	1 Fd.	—
		Betzes	19.0	83	13	3.3	2.3	49	3CW2R	W.
		Palliser	24.1	81	16	1.3	1.3	46	1 Fd.	W.
		Compana	15.4	84	15	1.8	1.0	48	3CW2R	—
Necessary difference—3.49 bushels.			Rainfall—May to August—6.88 inches.							

ERWIN J. SIEBEN, SALVADOR										
12	5	Montcalm	39.0	91	28	2.0	2.0	50	3CW6R	W.
		Keystone	34.6	91	25	2.0	2.0	51	1 Fd.	—
		Betzes	38.6	91	22	2.0	3.0	53	3CW2R	W.
		Palliser	37.8	91	26	2.0	2.0	50	3CW2R	—
		Compana	—	—	—	—	—	—	—	—
Compana destroyed by animals—yields not included in district summary.			Rainfall—May to August—7.57 inches.							

AMBROSE A. RESCHNY, EVESHAM										
12	6	Montcalm	39.1	—	29	3.0	1.3	46	1 Fd.	W.
		Keystone	46.0	—	24	3.8	1.8	46	1 Fd.	—
		Betzes	52.4	—	21	4.3	2.3	48	3CW2R	W.
		Palliser	51.9	—	24	3.8	1.8	47	1 Fd.	W.
		Compana	29.0	—	25	2.8	1.8	46	1 Fd.	W.
Necessary difference—6.81 bushels.			Rainfall—May to August—8.99 inches.							

RALPH R. DE ROO, VERA										
12	7	Montcalm	32.3	—	27	1.5	1.3	48	1 Fd.	W.
		Keystone	29.3	—	23	1.8	1.3	48	1 Fd.	—
		Betzes	33.5	—	23	3.0	1.3	48	1 Fd.	W.
		Palliser	33.8	—	24	2.8	1.5	47	1 Fd.	W.
		Compana	19.4	—	17	3.0	1.0	49	1 Fd.	W.
Necessary difference—7.06 bushels.			Rainfall—May to August—8.45 inches.							

BARRY J. ROBINSON, LONE ROCK										
12	8	Montcalm	70.0	—	44	3.0	2.0	53	3CW6R	W.
		Keystone	66.4	—	40	1.0	1.0	52	1 Fd.	—
		Betzes	67.1	—	35	4.0	3.0	56	3CW2R	W.
		Palliser	66.9	—	40	4.0	2.0	54	3CW2R	W.
		Compana	67.0	—	27	2.0	3.0	52	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—11.64 inches.							

DIANA R. DEGENSTIEN, BATTLEFORD										
12	10	Montcalm	25.9	91	23	1.0	2.0	49	3CW6R	T.
		Keystone	29.2	90	21	1.5	1.5	50	1 Fd.	—
		Betzes	23.9	90	18	1.0	2.0	53	1CW2R	—
		Palliser	29.9	91	21	1.7	2.2	52	3CW2R	—
		Compana	17.0	87	18	2.0	1.0	52	3CW2R	—
Necessary difference—3.32 bushels.			Rainfall—May to August—9.68 inches.							

WHEAT POOL DISTRICT 13

BETTY AND JAMES HIEBERT, BAY TRAIL										
13	1	Montcalm	36.6	—	26	1.0	2.0	50	3CW6R	W.
		Keystone	35.3	—	23	1.0	1.0	48	1 Fd.	—
		Betzes	40.3	—	22	2.3	2.0	52	3CW2R	W.
		Palliser	39.5	—	25	1.0	1.0	49	3CW2R	—
		Hannchen	36.5	—	24	2.0	2.0	53	3CW2R	W.
Necessary difference—2.53 bushels.			Rainfall—May to August—8.19 inches.							

CONRAD D. WIENS, DALMENY										
13	5	Montcalm	31.9	99	31	9.0	2.0	51	3CW6R	T.
		Keystone	34.5	100	27	9.0	2.0	50	1 Fd.	—
		Betzes	48.0	100	23	9.0	3.0	53	1CW2R	—
		Palliser	42.1	100	28	9.0	2.0	52	3CW2R	—
		Hannchen	44.1	100	29	9.0	2.0	54	1CW2R	—
Necessary difference—5.09 bushels.			Rainfall—May to August—6.57 inches.							

Wheat Pool District 13—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding-ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Commercial grades	Grading remarks
ANDY G. PEZDERIC, ASQUITH										
13	6	Montcalm	2.2	—	16	2.0	1.0	56	1 Fd.	T.
		Keystone	6.3	—	16	2.0	1.0	45	2 Fd.	T.
		Betzes	10.6	—	15	2.0	2.5	51	1CW2R	—
		Palliser	14.1	—	16	2.0	2.0	50	3CW2R	—
		Hannchen	11.2	—	14	2.0	1.8	51	2CW2R	T.
Necessary difference—2.26 bushels.			Rainfall—May to August—4.78 inches.							
WAYNE D. BONDEROFF, ARELEE										
13	7	Montcalm	13.6	95	25	2.5	2.0	49	3CW6R	T.
		Keystone	20.3	97	22	1.8	1.3	48	1 Fd.	—
		Betzes	26.2	93	23	2.0	2.0	52	1CW2R	—
		Palliser	24.2	95	26	2.3	1.8	48	3CW2R	—
		Hannchen	26.4	95	25	2.5	2.8	53	1CW2R	—
Necessary difference—4.44 bushels.			Rainfall—May to August—4.92 inches.							
FRANKLIN A. BLANDIN, ST. BRIEUX										
13	11	Montcalm	31.9	94	24	1.0	1.0	49	3CW6R	T.
		Keystone	38.0	94	21	1.0	1.0	49	1 Fd.	—
		Betzes	40.1	103	22	1.0	2.0	51	2CW2R	T.
		Palliser	42.6	96	24	1.0	1.8	50	3CW2R	—
		Hannchen	39.4	98	24	1.0	2.0	53	1CW2R	—
Necessary difference—5.82 bushels.			Rainfall—May to August—5.90 inches.							
Test discarded on account of damage by flooding, pests, hail, drought or other causes:										
13	10	Duane Kopp, Humboldt								

WHEAT POOL DISTRICT 14

RICHARD F. SELCH, KUROKI										
14	1	Montcalm	65.7	97	30	1.8	1.3	51	2CW6R	T.
		Keystone	81.2	91	26	1.0	1.0	49	1 Fd.	—
		Betzes	80.1	91	26	2.0	1.3	54	1CW2R	—
		Palliser	86.1	96	28	2.3	1.0	50	3CW2R	—
		Hannchen	86.5	96	28	2.3	1.5	55	1CW2R	—
Necessary difference—7.50 bushels.			Rainfall—May to August—8.84 inches.							
ALLEN PUGH, ROSE VALLEY										
14	4	Montcalm	48.4	—	27	2.8	3.0	50	3CW6R	G.
		Keystone	46.2	—	25	1.8	1.5	51	1 Fd.	—
		Betzes	47.5	—	24	1.8	3.0	53	3CW2R	W.
		Palliser	53.1	—	25	3.3	2.0	50	3CW2R	—
		Hannchen	49.3	—	23	2.5	2.3	53	3CW2R	W.
Necessary difference—3.59 bushels.			Rainfall—May to August—6.62 inches.							
JIM F. ADAM, GREENWATER LAKE										
14	5	Montcalm	30.1	—	—	—	—	48	3CW6R	W.
		Keystone	31.1	—	—	—	—	47	1 Fd.	—
		Betzes	26.4	—	—	—	—	48	3CW2R	W.
		Palliser	26.5	—	—	—	—	44	3 Fd.	T. W.
		Hannchen	25.8	—	—	—	—	49	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—Incomplete.							
G. HARVEY HEAVIN, MELFORT										
14	8	Montcalm	44.2	82	19	1.3	1.8	48	3CW6R	T.
		Keystone	42.1	82	19	1.3	1.5	46	1 Fd.	—
		Betzes	53.3	81	17	1.3	2.0	53	1CW2R	—
		Palliser	52.1	86	21	2.8	1.8	48	3CW2R	—
		Hannchen	46.1	82	20	1.5	1.8	53	3CW2R	W.
Necessary difference—5.88 bushels.			Rainfall—May to August—5.53 inches.							
JIM N. GARINGER, BROOKSBY										
14	9	Montcalm	69.4	82	29	1.5	3.0	46	1 Fd.	W.
		Keystone	59.3	81	26	1.3	1.0	45	2 Fd.	—
		Betzes	79.9	83	26	1.8	2.5	51	2CW2R	W.
		Palliser	82.1	84	28	1.5	1.8	49	3CW2R	W.
		Hannchen	91.3	82	27	1.7	2.0	51	3CW2R	W.
Necessary difference—7.73 bushels.			Rainfall—May to August—4.67 inches.							
TERRY W. J. REAVIE, ARBORFIELD										
14	10a	Montcalm	10.4	—	—	—	—	49	3CW6R	T.
		Keystone	14.5	—	—	—	—	49	1 Fd.	—
		Betzes	13.7	—	—	—	—	53	1CW2R	—
		Palliser	16.7	—	—	—	—	49	3CW2R	—
		Hannchen	17.2	—	—	—	—	54	1CW2R	—
Necessary difference—3.60 bushels.			Rainfall—May to August—Incomplete.							

Wheat Pool District 14—Continued

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seed- ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
AILEEN M. HANDYSIDE, NEW OSGOODE										
14	70b	Montcalm	27.2	87	21	3.0	2.3	46	1 Fd.	T., W.
		Keystone	26.5	89	21	2.8	1.3	44	2 Fd.	T.
		Betzes	27.4	88	20	2.8	1.3	49	3CW2R	W.
		Palliser	38.0	88	22	3.5	2.0	49	3CW2R	—
		Hannchen	32.6	89	20	3.8	1.5	51	3CW2R	W.
Necessary difference—6.90 bushels.			Rainfall—May to August—5.95 inches.							

Test discarded on account of damage by flooding, pests, hail, drought or other causes:

14 7 Wilmer Pierce, Tisdale.

WHEAT POOL DISTRICT 15

MAC CHUBAK, YELLOW CREEK

15	1	Montcalm	52.4	89	25	2.0	3.0	49	3CW6R	T.
		Keystone	45.4	90	22	1.0	1.0	47	1 Fd.	—
		Betzes	45.0	94	24	2.0	1.0	54	1CW2R	—
		Palliser	44.1	94	21	3.0	1.0	50	3CW2R	—
		Hannchen	40.2	97	22	2.0	1.0	54	1CW2R	—
Yield differences not significant.			Rainfall—May to August—7.31 inches.							

DONALD R. HOEY, HOEY

15	2	Montcalm	31.4	—	14	1.5	2.5	49	3CW6R	T.
		Keystone	36.0	—	17	1.5	2.3	48	1 Fd.	—
		Betzes	40.8	—	16	2.0	2.0	53	1CW2R	—
		Palliser	40.4	—	16	1.8	2.0	52	3CW2R	—
		Hannchen	38.4	—	16	2.0	2.5	54	1CW2R	—
Yield differences not significant.			Rainfall—May to August—6.07 inches.							

GLENN A. McMULLEN, RED DEER HILL

15	3	Montcalm	114.5	82	39	6.8	2.0	53	1CW6R	—
		Keystone	92.6	83	34	9.0	1.5	50	1 Fd.	—
		Betzes	80.7	82	27	8.0	2.0	53	1CW2R	—
		Palliser	90.4	89	39	8.3	2.0	52	3CW2R	—
		Hannchen	80.9	84	28	6.5	2.8	55	1CW2R	—
Necessary difference—14.78 bushels.			Rainfall—May to August—7.01 inches.							

STANLEY BOLD, MARCELIN

15	5	Montcalm	45.4	89	34	1.5	2.3	53	1CW6R	—
		Keystone	50.6	90	34	1.0	1.0	51	1 Fd.	—
		Betzes	51.3	90	25	2.0	2.8	54	1CW2R	—
		Palliser	37.7	92	33	1.0	2.0	54	3CW2R	—
		Hannchen	49.6	90	28	1.3	2.0	54	1CW2R	—
Yield differences not significant.			Rainfall—May to August—5.62 inches.							

WILLIAM H. BLOCK, SHELLBROOK

15	8	Montcalm	61.3	82	24	1.0	2.0	49	3CW6R	T.
		Keystone	58.5	86	24	1.0	1.8	48	1 Fd.	—
		Betzes	66.6	88	21	1.0	1.3	53	1CW2R	—
		Palliser	65.7	86	23	1.0	2.0	51	3CW2R	—
		Hannchen	73.7	88	21	1.0	1.3	53	1CW2R	—
Yield differences not significant.			Rainfall—May to August—4.74 inches.							

MARCEL F. PAINCHAUD, ALBERTVILLE

15	9	Montcalm	30.0	—	25	3.0	2.0	46	1 Fd.	T.
		Keystone	30.5	—	26	2.0	1.3	46	1 Fd.	—
		Betzes	33.9	—	23	3.8	2.8	49	3CW2R	T.
		Palliser	36.6	—	24	4.0	2.0	46	1 Fd.	T.
		Hannchen	32.4	—	25	3.8	2.8	50	3CW2R	T.
Necessary difference—3.21 bushels.			Rainfall—May to August—4.03 inches.							

RONALD B. TYCHOLIZ, MEATH PARK

15	10	Montcalm	56.4	85	30	2.2	1.8	48	3CW6R	T.
		Keystone	55.6	89	28	1.0	1.0	49	1 Fd.	—
		Betzes	59.6	86	23	4.0	2.3	53	1CW2R	—
		Palliser	57.5	92	28	2.0	1.3	48	3CW 2R	—
		Hannchen	58.5	90	26	2.0	1.8	51	2CW2R	T.
Yield differences not significant.			Rainfall—May to August—3.90 inches.							

Tests discarded on account of damage by flooding, pests, hail, drought or other causes:

15 4 Elmer Doell, Hague

15 6 Glen Steffen, Ordale

15 11 Tom Keeping, Garrick

WHEAT POOL DISTRICT 16

Dist	Sub-Dist.	Varieties	Yield bus. per acre	Days seeding- ripening	Plant height inches	Straw strength	Neck strength	Lbs. per measured bushel	Com- mercial grades	Grading remarks
JOHN M. CLAIR, RADISSON										
16	1	Montcalm	12.4	96	15	1.0	1.8	48	3CW6R	W.
		Keystone	12.9	96	16	2.0	1.3	47	1 Fd.	—
		Betzes	20.0	96	13	2.0	2.0	51	2CW2R	W.
		Palliser	21.1	96	14	2.0	2.0	48	3CW2R	W.
		Hannchen	18.4	96	13	2.0	2.0	51	3CW2R	W.
Necessary difference—3.25 bushels.			Rainfall—May to August—6.43 inches.							
DARYL M. P. CHVALA, NORTH BATTLEFORD										
16	3	Montcalm	28.8	—	21	1.3	2.3	48	1 Fd.	G.
		Keystone	32.3	—	19	1.8	1.5	48	1 Fd.	—
		Betzes	38.3	—	19	1.0	2.3	52	3CW2R	W.
		Palliser	45.2	—	21	1.0	1.8	49	1 Fd.	G.
		Hannchen	43.1	—	18	1.3	1.8	53	3CW2R	W.
Necessary difference—11.78 bushels.			Rainfall—May to August—6.46 inches.							
VERNON E. IVERSON, MEOTA										
16	4	Montcalm	59.3	104	28	2.5	2.0	52	3CW6R	W.
		Keystone	59.4	104	27	1.3	1.0	51	1 Fd.	—
		Betzes	62.0	104	24	1.3	2.0	54	3CW2R	W.
		Palliser	61.2	104	27	3.8	2.0	51	3CW2R	W.
		Hannchen	61.9	104	27	3.0	2.0	56	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—9.69 inches.							
TEDDY J. WESSON, MAIDSTONE										
16	5	Montcalm	64.9	92	42	2.5	2.3	54	3CW6R	W.
		Keystone	67.9	92	39	1.0	1.0	52	1 Fd.	—
		Betzes	71.5	95	33	1.3	3.0	57	3CW2R	W.
		Palliser	68.6	97	37	3.0	2.3	53	3CW2R	—
		Hannchen	71.1	99	37	3.0	2.3	57	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—10.99 inches.							
C. TERRENCE TOWNLEY-SMITH, LASHBURN										
16	6	Montcalm	70.1	—	—	—	—	50	3CW6R	W.
		Keystone	76.3	—	—	—	—	50	1 Fd.	—
		Betzes	69.1	—	—	—	—	53	3CW2R	W.
		Palliser	62.3	—	—	—	—	47	1 Fd.	G.
		Hannchen	58.3	—	—	—	—	54	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—Incomplete.							
SHARON FERGUSON, FAIRHOLME										
16	9	Montcalm	59.4	86	38	1.0	1.0	52	1 Fd.	W.
		Keystone	49.5	86	32	1.0	1.0	49	1 Fd.	W.
		Betzes	64.6	89	28	2.0	2.0	54	3CW2R	W.
		Palliser	65.1	87	30	4.0	2.0	52	3CW2R	W.
		Hannchen	53.9	90	26	4.0	1.0	56	3CW2R	W.
Yield differences not significant.			Rainfall—May to August—10.76 inches.							
PETER P. MYKIETIAK, MILDRED										
16	10	Montcalm	99.7	91	41	4.8	2.0	52	3CW6R	G.
		Keystone	86.4	90	36	2.2	1.0	51	1 Fd.	G.
		Betzes	91.3	93	32	7.0	2.8	54	1CW2R	—
		Palliser	93.3	94	36	7.0	2.5	50	3CW2R	—
		Hannchen	83.1	95	35	7.8	3.0	55	3CW2R	G.
Yield differences not significant.			Rainfall—May to August—6.53 inches.							
FRANCIS L. ARLITT, LOON LAKE										
16	11	Montcalm	38.3	99	37	2.8	2.3	49	1 Fd.	W.
		Keystone	41.1	100	39	1.0	1.0	48	1 Fd.	—
		Betzes	49.9	106	36	1.0	1.8	51	3CW2R	W.
		Palliser	41.1	105	38	2.0	1.3	47	1 Fd.	W.
		Hannchen	49.5	103	36	2.5	1.8	52	3CW2R	W.
Necessary difference—8.08 bushels.			Rainfall—May to August—10.73 inches.							

Table No. 22

INDIVIDUAL TEST RESULTS — FLAX

The results of all successful flax tests are shown individually in the following table. The tests are listed in order of Wheat Pool districts and sub-districts. Before consulting the following table the reader is advised to refer to the discussion on page 8, headed, "Interpretation of Results."

IMPORTANT—It should be kept in mind that the results of a single test should not be used as the basis for the choice of a variety. A more reliable guide is the discussion on a district basis which notes the performance of the same varieties in a large number of tests.

For an explanation of the abbreviations under "Grading Remarks," see page 9.

WHEAT POOL DISTRICT 1

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
CHARLES E. REDPATH, GAINSBOROUGH								
1	1	Redwood	17.0	94	24	56	1CW	—
		Norland	15.8	95	25	55	1CW	—
		Cree	17.2	93	25	54	1CW	—
		Arny	15.5	96	28	55	1CW	—
		Marine	15.9	91	25	56	1CW	—
Yield differences not significant.			Rainfall—May to August—17.30 inches.					

VERNON L. PENROD, LAMPMAN								
1	4	Redwood	12.4	94	17	55	1CW	—
		Norland	11.4	94	17	55	1CW	—
		Cree	11.1	98	16	56	1CW	—
		Arny	11.0	102	16	56	1CW	—
		Marine	11.1	92	18	56	1CW	—
Necessary difference—.78 bushels.			Rainfall—May to August—16.52 inches.					

RONALD G. ALEXANDER, GOODWATER								
1	7	Redwood	8.3	100	15	55	1CW	—
		Norland	7.2	100	17	55	1CW	—
		Cree	5.2	101	17	55	1CW	—
		Arny	6.6	102	18	55	1CW	—
		Marine	8.1	93	14	56	1CW	—
Yield differences not significant.			Rainfall—May to August—7.64 inches.					

BOB G. MORTON, KISBEY								
1	9	Redwood	10.0	95	19	56	1CW	—
		Norland	11.6	94	20	55	1CW	—
		Cree	12.4	96	19	55	1CW	—
		Arny	11.4	90	21	55	1CW	—
		Marine	9.0	88	16	56	1CW	—
Necessary difference—2.06 bushels.			Rainfall—May to August—10.68 inches.					

WHEAT POOL DISTRICT 2

ALBERT FITZPATRICK, WILLOWBUNCH								
2	4	Redwood	12.6	—	24	54	1CW	—
		Norland	6.6	—	24	55	1CW	—
		Cree	8.5	—	20	54	1CW	—
		Arny	7.9	—	23	55	1CW	—
		Marine	12.2	—	23	56	1CW	—
Necessary difference—1.63 bushels.			Rainfall—May to August—10.78 inches.					

RAYMOND LOY, CANOPUS								
2	5	Redwood	21.5	107	24	53	2CW	F.
		Norland	20.5	107	28	54	1CW	—
		Cree	20.7	106	24	54	1CW	—
		Arny	20.2	105	29	53	2CW	F.
		Marine	18.0	106	22	53	2CW	F.
Necessary difference—1.94 bushels.			Rainfall—May to August—9.42 inches.					

Wheat Pool District 2—Continued

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
CLIFFORD A. ZABOLOTNEY, KAYVILLE								
2	9	Redwood	27.0	—	15	55	1CW	—
		Norland	28.7	—	15	55	1CW	—
		Cree	28.0	—	15	55	1CW	—
		Arny	24.3	—	15	55	1CW	—
		Marine	21.7	—	15	56	1CW	—
Necessary difference—2.59 bushels.			Rainfall—May to August—10.96 inches.					

JAMES F. WEBB, AMULET								
2	10	Redwood	19.2	124	26	57	1CW	—
		Norland	18.9	122	25	56	1CW	—
		Cree	20.1	119	24	56	1CW	—
		Arny	19.0	115	24	56	1CW	—
		Marine	17.9	121	25	57	1CW	—
Yield differences not significant.			Rainfall—May to August—11.80 inches.					

WHEAT POOL DISTRICT 3

HENRY SPERLIE, RELIANCE								
3	1	Redwood	11.7	—	—	56	1CW	—
		Norland	9.9	—	—	55	1CW	—
		Cree	9.1	—	—	55	1CW	—
		Arny	9.3	—	—	55	1CW	—
		Marine	10.0	—	—	56	1CW	—
Yield differences not significant.			Rainfall—May to August—11.38 inches.					

MERLE D. SANFORD, LOOMIS								
3	4	Redwood	16.7	—	—	56	1CW	—
		Norland	15.6	—	—	55	1CW	—
		Cree	14.2	—	—	55	1CW	—
		Arny	13.2	—	—	54	1CW	—
		Marine	14.1	—	—	56	1CW	—
Yield differences not significant.			Rainfall—May to August—9.03 inches.					

GORDON J. POPPY, SHAUNAVON								
3	8	Redwood	15.4	—	—	54	1CW	—
		Norland	17.5	—	—	54	1CW	—
		Cree	17.4	—	—	54	1CW	—
		Arny	15.3	—	—	55	1CW	—
		Marine	13.7	—	—	55	1CW	—
Necessary difference—2.65 bushels.			Rainfall—May to August—Incomplete.					

JEROME F. WERNICKE, CADILLAC								
3	9	Redwood	24.7	103	22	56	1CW	—
		Norland	26.7	100	28	55	1CW	—
		Cree	25.6	98	20	56	1CW	—
		Arny	22.1	96	25	56	1CW	—
		Marine	19.2	103	19	57	1CW	—
Necessary difference—3.49 bushels.			Rainfall—May to August—9.08 inches.					

WHEAT POOL DISTRICT 4

KEN SAWBY, MAPLE CREEK								
4	2	Redwood	—	—	—	55	2CW	F.
		Norland	—	—	—	55	1CW	—
		Cree	—	—	—	55	2CW	F.
		Arny	—	—	—	55	3CW	F.
		Marine	—	—	—	55	1CW	—
Part of test damaged—yields not reliable.			Rainfall—May to August—3.75 inches.					

ROBERT H. STAPLE, SCEPTRE								
4	9	Redwood	15.7	—	22	56	3CW	F.
		Norland	13.3	—	22	55	2CW	F.
		Cree	18.0	—	23	56	2CW	F.
		Arny	16.8	—	24	57	1CW	—
		Marine	13.4	—	22	57	1CW	—
Necessary difference—1.23 bushels.			Rainfall—May to August—6.40 inches.					

WHEAT POOL DISTRICT 5

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
LARRY P. BROWN, BATEMAN								
5	2	Redwood	14.3	—	16	54	1CW	—
		Norland	15.4	—	15	53	1CW	—
		Cree	14.8	—	15	54	1CW	—
		Army	13.1	—	17	53	1CW	—
		Marine	14.3	—	15	56	1CW	—
Necessary difference—1.28 bushels.				Rainfall—May to August—Incomplete.				
KEITH E. STOLHANDSKE, SWIFT CURRENT								
5	4	Redwood	16.5	104	18	54	2CW	F.
		Norland	17.0	104	20	54	1CW	—
		Cree	18.6	100	16	54	1CW	—
		Army	15.9	108	17	53	1CW	—
		Marine	15.9	110	19	55	1CW	—
Yield differences not significant.				Rainfall—May to August—11.04 inches.				
GARRY W. McDOWELL, CARON								
5	7	Redwood	23.4	113	22	56	1CW	—
		Norland	25.5	116	23	54	1CW	—
		Cree	22.3	117	23	55	1CW	—
		Army	18.8	115	24	55	1CW	—
		Marine	20.1	116	22	56	1CW	—
Necessary difference—2.22 bushels.				Rainfall—May to August—11.62 inches.				
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
5	8	Wayne Knarr, Eskbank.						

WHEAT POOL DISTRICT 6

CATHERINE L. MOATS, GRAY								
6	2	Redwood	12.3	88	20	48	4CW	F.
		Norland	8.3	88	20	47	Sample	F.
		Cree	15.2	88	20	51	3CW	F.
		Army	14.0	88	20	53	2CW	F.
		Marine	11.6	84	19	54	1CW	F.
Necessary difference—1.62 bushels.			Rainfall—May to August—9.50 inches.					
DOUGLAS R. GRAY, INDIAN HEAD								
6	8	Redwood	12.1	—	—	55	1CW	—
		Norland	11.7	—	—	55	1CW	—
		Cree	11.2	—	—	54	1CW	—
		Army	11.5	—	—	55	1CW	—
		Marine	10.0	—	—	55	1CW	—
Necessary difference—.98 bushels.			Rainfall—May to August—8.98 inches.					
WILLIAM A. ODDIE, TREGARVA								
6	10	Redwood	14.0	81	21	55	3CW	F.
		Norland	10.9	82	22	53	2CW	F.
		Cree	13.8	81	22	54	2CW	F.
		Army	12.6	81	22	54	2CW	F.
		Marine	10.5	81	22	54	1CW	—
Necessary difference—2.53 bushels.			Rainfall—May to August—8.72 inches.					
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
6	4	Ian and Cameron Mitchell, Cardross, Sask.						

WHEAT POOL DISTRICT 7

KEITH W. BIESENTHAL, WINDTHORST								
7	4	Redwood	13.0	93	16	55	1CW	—
		Norland	9.7	93	15	54	1CW	—
		Cree	10.6	93	17	54	1CW	—
		Army	9.9	93	17	54	1CW	—
		Marine	9.3	91	15	55	1CW	—
Necessary difference—2.19 bushels.			Rainfall—May to August—6.75 inches.					
MARSHALL R. STAMM, GLENAVON								
7	6	Redwood	12.0	108	14	52	3CW	F.
		Norland	11.2	108	15	53	2CW	F.
		Cree	11.3	108	15	54	2CW	F.
		Army	11.4	108	16	53	2CW	F.
		Marine	8.7	108	14	54	1CW	—
Yield differences not significant.			Rainfall—May to August—7.21 inches.					

Wheat Pool District 7—Continued

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
BRIAN H. RAFFEY, WHITEWOOD								
7	8	Redwood	19.5	119	19	56	1CW	—
		Norland	22.6	119	20	55	1CW	—
		Cree	24.1	117	19	56	1CW	—
		Arny	22.9	118	18	56	1CW	—
		Marine	20.2	116	19	56	1CW	—
Necessary difference—2.40 bushels.			Rainfall—May to August—8.90 inches.					
DOUGLAS GLAZER, ESTERHAZY								
7	10	Redwood	4.1	—	—	53	1CW	—
		Norland	4.4	—	—	53	1CW	—
		Cree	5.4	—	—	54	1CW	—
		Arny	6.7	—	—	54	1CW	—
		Marine	4.2	—	—	55	1CW	—
Necessary difference—1.82 bushels.			Rainfall—May to August—Incomplete.					
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
7	1	Donald M. Hartlin, Mair.						

WHEAT POOL DISTRICT 8

DIANE K. RATHGEBER, FENWOOD								
8	3	Redwood	6.8	88	16	56	1CW	—
		Norland	8.0	88	17	55	1CW	—
		Cree	7.4	89	17	55	1CW	—
		Arny	5.6	89	18	56	1CW	—
		Marine	6.7	87	17	55	1CW	—
Necessary difference—1.18 bushels.				Rainfall—May to August—7.28 inches.				
JUDY J. KINDRAT, HAMTON								
8	5	Redwood	—	—	15	54	1CW	—
		Norland	—	—	13	54	1CW	—
		Cree	—	—	16	54	1CW	—
		Arny	—	—	16	53	1CW	—
		Marine	—	—	15	55	1CW	—
Yields not reliable—Test damaged by birds.				Rainfall—May to August—8.28 inches.				
FRANK M. HRABCHAK, PELLY								
8	10	Redwood	16.8	106	24	56	1CW	—
		Norland	18.2	105	23	56	1CW	—
		Cree	18.0	96	23	55	1CW	—
		Arny	15.3	98	24	55	1CW	—
		Marine	16.7	95	22	56	1CW	—
Yield differences not significant.				Rainfall—May to August—6.62 inches.				
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
8	11	Peter J. Ezak, Erwood.						

WHEAT POOL DISTRICT 9

DELORES DAW, JASMIN								
9	1	Redwood	17.3	96	18	56	1CW	—
		Norland	16.8	92	19	55	1CW	—
		Cree	18.1	97	19	56	1CW	—
		Arny	17.3	96	22	56	1CW	—
		Marine	15.8	91	18	55	1CW	—
Yield differences not significant.				Rainfall—May to August—9.29 inches.				
WILLIAM R. MILLER, DYSART								
9	2	Redwood	8.3	—	15	54	4CW	F.
		Norland	7.9	—	16	52	4CW	F.
		Cree	7.1	—	13	53	3CW	F.
		Arny	7.4	—	16	53	3CW	F.
		Marine	6.5	—	15	55	2CW	F.
Necessary difference—1.16 bushels.				Rainfall—May to August—6.03 inches.				
DENNIS J. ECKEL, QUINTON								
9	7	Redwood	11.2	104	19	56	1CW	—
		Norland	8.7	105	18	55	1CW	—
		Cree	10.4	104	19	55	1CW	—
		Arny	10.3	105	21	56	1CW	—
		Marine	8.0	103	19	56	1CW	—
Necessary difference—2.22 bushels.				Rainfall—May to August—9.82 inches.				

Wheat Pool District 9—Continued

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
ERIC A. OLAFSON, DAFOE								
9	8	Redwood	—	—	—	50	1CW	—
		Norland	—	—	—	51	1CW	—
		Cree	—	—	—	50	1CW	—
		Army	—	—	—	52	1CW	—
		Marine	—	—	—	53	1CW	—
Test damaged by grasshoppers—yields not reliable.					Rainfall—May to August—Incomplete.			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
9	5	Linda Mulholland, Govan.						

WHEAT POOL DISTRICT 10

LORANCE C. STEPHENS, WISETON								
10	4	Redwood	9.8	100	15	56	1CW	—
		Norland	9.6	100	10	55	1CW	—
		Cree	8.6	100	14	54	1CW	—
		Army	9.0	100	14	55	1CW	—
		Marine	8.6	100	17	56	1CW	—
Yield differences not significant.					Rainfall—May to August—9.16 inches.			
LYLE G. JOHNSON, DAVIDSON								
10	7	Redwood	8.2	119	13	56	1CW	—
		Norland	9.2	118	14	55	1CW	—
		Cree	8.9	119	15	55	1CW	—
		Army	7.8	119	15	56	1CW	—
		Marine	7.3	119	13	56	1CW	—
Necessary difference—1.35 bushels.					Rainfall—May to August—6.99 inches.			
BRUCE F. ROUSE, DONAVON								
10	10	Redwood	4.0	119	17	53	1CW	—
		Norland	3.6	119	17	54	1CW	—
		Cree	2.9	117	18	54	1CW	—
		Army	2.8	117	20	53	1CW	—
		Marine	3.0	115	17	54	1CW	—
Yield differences not significant.					Rainfall—May to August—7.40 inches.			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
10	2	Ronald Langer, Riverhurst.						

WHEAT POOL DISTRICT 11

N. JACK WALKER, GREENAN								
11	2	Redwood	14.0	126	20	55	1CW	—
		Norland	16.5	124	16	55	1CW	—
		Cree	16.2	125	18	55	1CW	—
		Army	13.1	123	16	55	1CW	—
		Marine	12.8	122	20	56	1CW	—
Necessary difference—1.57 bushels.				Rainfall—May to August—9.69 inches.				
IRWIN DRIEDGER, KINDERSLEY								
11	6	Redwood	15.4	—	20	52	4CW	F.
		Norland	14.7	—	20	54	4CW	F.
		Cree	14.4	—	20	53	3CW	F.
		Army	15.0	—	20	55	3CW	F.
		Marine	14.2	—	16	55	2CW	F.
Yield differences not significant.				Rainfall—May to August—8.74 inches.				
ROBERT C. PATON, GLAMIS								
11	7	Redwood	12.6	99	16	55	1CW	—
		Norland	13.9	99	16	55	1CW	—
		Cree	12.5	99	17	56	1CW	—
		Army	12.8	99	18	55	1CW	—
		Marine	10.2	85	15	56	1CW	—
Necessary difference—2.19 bushels.				Rainfall—May to August—8.79 inches.				

Wheat Pool District 11—Continued

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
WAYNE R. HOOPER, DRUID								
11	9	Redwood	19.3	—	14	55	3CW	F.
		Norland	18.7	—	14	53	3CW	F.
		Cree	19.0	—	10	53	3CW	F.
		Arny	19.6	—	11	55	2CW	F.
		Marine	15.8	—	11	55	1CW	F.
Necessary difference—2.32 bushels.			Rainfall—May to August—8.31 inches.					
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
11	4	Nora Goodwin, Eatonia.						

WHEAT POOL DISTRICT 12

H. BARRY FREY, CAVELL								
12	3	Redwood	11.0	—	24	56	1CW	—
		Norland	14.1	—	25	55	1CW	—
		Cree	13.2	—	25	55	1CW	—
		Arny	13.2	—	25	56	1CW	—
		Marine	11.3	—	25	56	1CW	—
Necessary difference—1.74 bushels.			Rainfall—May to August—8.14 inches.					

EDWARD E. GINTAUT, LUSELAND								
12	4	Redwood	35.5	94	24	56	1CW	—
		Norland	31.8	97	26	55	1CW	—
		Cree	34.5	103	23	57	1CW	—
		Arny	30.8	95	24	55	1CW	—
		Marine	32.5	93	24	57	1CW	—
Necessary difference—3.01 bushels.			Rainfall—May to August—7.91 inches.					

LEONARD A. GARTNER, PRIMATE								
12	6	Redwood	15.1	101	15	56	1CW	—
		Norland	16.4	101	15	55	1CW	—
		Cree	15.0	100	15	55	1CW	—
		Arny	14.1	101	15	56	1CW	—
		Marine	13.4	101	15	56	1CW	—
Yield differences not significant.			Rainfall—May to August—9.11 inches.					

DAVID K. MARSHALL, BALDWINTON								
12	8	Redwood	9.6	—	12	56	1CW	—
		Norland	9.2	—	12	55	1CW	—
		Cree	9.5	—	12	55	1CW	—
		Arny	9.2	—	12	55	1CW	—
		Marine	6.7	—	9	56	1CW	—
Necessary difference—1.15 bushels.			Rainfall—May to August—8.64 inches.					

ERNEST G. LAWRENCE, CUT KNIFE								
12	9	Redwood	23.4	—	—	54	1CW	—
		Norland	22.8	—	—	53	1CW	—
		Cree	24.6	—	—	53	1CW	—
		Arny	21.7	—	—	53	1CW	—
		Marine	18.3	—	—	54	1CW	—
Necessary difference—2.28 bushels.			Rainfall—May to August—Incomplete.					

WHEAT POOL DISTRICT 13

CAROL J. KEHLER, WATROUS								
13	2	Redwood	9.3	115	20	55	1CW	—
		Norland	7.4	115	21	54	1CW	—
		Cree	10.1	116	21	55	1CW	—
		Arny	10.6	115	23	55	1CW	—
		Marine	8.9	115	20	56	1CW	—
Necessary difference—1.65 bushels.			Rainfall—May to August—9.16 inches.					

JIM J. SCHMIDT, ALLAN								
13	3	Redwood	2.8	101	12	54	1CW	—
		Norland	3.0	102	12	54	1CW	—
		Cree	2.4	102	10	55	1CW	—
		Arny	2.7	102	14	54	1CW	—
		Marine	2.2	101	10	54	1CW	—
Yield differences not significant.			Rainfall—May to August—4.66 inches.					

Wheat Pool District 13—Continued

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
JAMES A. ANDERSON, KINLEY								
13	7	Redwood	8.4	—	16	58	1CW	—
		Norland	8.9	—	15	56	2CW	F.
		Cree	9.6	—	16	56	1CW	—
		Arny	10.7	—	18	56	2CW	F.
		Marine	7.8	—	15	56	1CW	—
Necessary difference—1.53 bushels.			Rainfall—May to August—7.08 inches.					
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
13	4	Diane Gryschuk, Elstow.						
13	8	Donald E. Belke, Aberdeen.						

WHEAT POOL DISTRICT 14

DAVID L. WILLIAMS, LAC VERT								
14	3	Redwood	15.0	101	18	54	1CW	—
		Norland	15.1	101	17	55	1CW	—
		Cree	13.3	101	19	54	1CW	—
		Arny	13.2	101	20	54	1CW	—
		Marine	12.0	101	16	56	1CW	—
Necessary difference—1.01 bushels.				Rainfall—May to August—6.59 inches.				
MERVIN D. BELANKO, PRAIRIE RIVER								
14	6	Redwood	21.9	92	25	56	3CW	F.
		Norland	22.5	90	26	55	3CW	F.
		Cree	21.6	89	25	55	3CW	F.
		Arny	20.3	93	27	55	3CW	F.
		Marine	20.5	87	25	56	1CW	—
Yield differences not significant.				Rainfall—May to August—5.61 inches.				
BEVERLEY J. GENTNER, CARROT RIVER								
14	11	Redwood	—	—	15	46	Sample	F.
		Norland	—	—	16	45	Sample	F.
		Cree	—	—	18	46	Sample	F.
		Arny	—	—	19	46	Sample	F.
		Marine	—	—	17	49	4CW	F.
Unsatisfactory germination—yields not reliable.				Rainfall—May to August—4.65 inches.				
Tests discarded on account of damage by flooding, pests, hail, drought or other causes:								
14	8	Don A. Hanberg, Melfort.						

WHEAT POOL DISTRICT 15

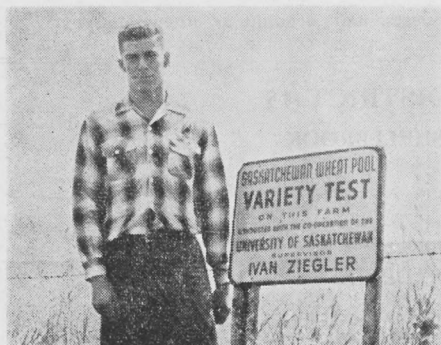
R. EDDIE STENE, SHELLBROOK								
15	6	Redwood	10.1	101	14	56	1CW	—
		Norland	9.8	96	14	56	1CW	—
		Cree	9.8	105	15	55	1CW	—
		Arny	8.9	106	13	56	1CW	—
		Marine	9.5	93	15	56	1CW	—
Yield differences not significant.					Rainfall—May to August—4.54 inches.			
NORMAND BABIN, DEBDEN								
15	7	Redwood	—	—	—	53	2CW	F.
		Norland	—	—	—	53	2CW	F.
		Cree	—	—	—	54	2CW	F.
		Arny	—	—	—	53	2CW	F.
		Marine	—	—	—	54	1CW	—
Test damaged—yields not reliable.					Rainfall—May to August—5.25 inches.			
Test discarded on account of damage by flooding, pests, hail, drought or other causes:								
15	9	Wm. McDonald, Alingly.						

WHEAT POOL DISTRICT 16

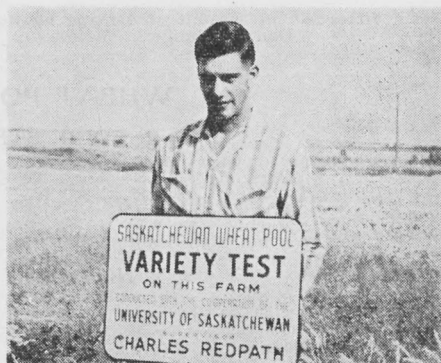
DAVID L. ALEXANDER, DENHOLM								
16	1	Redwood	9.3	94	18	55	1CW	—
		Norland	9.7	98	17	55	1CW	—
		Cree	9.7	96	20	56	1CW	—
		Arny	10.0	97	20	55	1CW	—
		Marine	9.3	96	17	56	1CW	—
Yield differences not significant.			Rainfall—May to August—6.34 inches.					

Wheat Pool District 16—Continued

Dist.	Sub-dist.	Varieties	Yield bus. per acre	Days seeding to ripening	Plant height in inches	Pounds per measured bushel	Commercial grades	Grading remarks
GORDON K. JACKSON, SPEERS								
16	2	Redwood	24.6	108	18	55	1CW	—
		Norland	23.4	108	18	55	1CW	—
		Cree	23.4	108	20	56	1CW	—
		Army	22.3	108	22	55	1CW	—
		Marine	20.6	102	18	54	1CW	—
Necessary difference—1.88 bushels.			Rainfall—May to August—6.83 inches.					
KEN A. TUPLIN, MAIDSTONE								
16	5	Redwood	31.9	130	22	56	3CW	F.
		Norland	31.3	129	25	55	3CW	F.
		Cree	28.5	124	23	56	3CW	F.
		Army	31.2	123	26	55	2CW	F.
		Marine	24.9	120	20	56	1CW	—
Necessary difference—4.33 bushels.			Rainfall—May to August—10.80 inches.					
JOSEPH R. C. ROTHERY, PARADISE HILL								
16	7	Redwood	26.3	—	25	56	2CW	F.
		Norland	25.0	—	27	55	2CW	F.
		Cree	28.0	—	26	56	1CW	—
		Army	26.9	—	26	55	1CW	—
		Marine	19.2	—	26	56	1CW	—
Necessary difference—3.95 bushels.			Rainfall—May to August—9.76 inches.					



Ivan Ziegler stands beside the sign indicating that he conducted a Wheat Pool variety test.



Charles Redpath of Gainsborough stands in front of his flax test.

ALPHABETICAL INDEX OF VARIETY TEST SUPERVISORS

Name	Page	Name	Page
"A"		"D"	
Jim F. Adam, Greenwater Lake	50	Donald and Albert Daku, Kipling ..	31
Stewart D. Adam, Eastend	42	Roger Danku, Meskanaw	38
David L. Alexander, Denholm	59	M. Delores Daw, Jasmin	56
Ronald G. Alexander, Goodwater ..	53	Diana R. Degenstien, Battleford ..	49
Clark E. Amundson, Robsart	28	Ralph R. De Roo, Vera	49
Christine L. Anderson, Coderre	43	Wayne Dmytriw, Porcupine Plain ..	37
George E. Anderson, Val Marie	42	Elmer S. Doell, Hague	51
James A. Anderson, Kinley	59	David J. Domes, Hume	40
Trevor W. Anderson, Frontier	28	Irwin Driedger, Kindersley	57
Donald E. Andres, Medstead	39	Marcel J. Dubois, Rosetown	34
Francis L. Arlitt, Loon Lake	52	Robert J. Duckworth, Courval	29
Donald B. Arnold, Birsay	33		
"B"		"E"	
Normand Babin, Debden	59	Kenneth D. Easton, Kennedy	45
Donald Badke, Springside	32	Dennis J. Eckel, Quinton	56
Vernon F. Baldwin, Cabri	43	Jerry E. England, Stranraer	34
Elwood L. Barkman, Flowing Well ..	43	Boris Ewanchuk, Whitkow	38
Ralph L. Barlow, Kyle	48	Peter J. Ezak, Erwood	56
Wilson G. Barton, Beechy	33		
Robert J. Barrdell, Paradise Hill ..	38	"F"	
Bob Bayda, Smuts	36	G. Lyle Fee, Alameda	26
Edwin C. Becker, Spinney Hill	49	Sharon R. T. Ferguson, Fairholme ..	52
Mervin D. Belanko, Prairie River ..	59	C. Orville Fiske, Kelso	44
Donald E. Belke, Aberdeen	59	Albert Fitzpatrick, Willow Bunch ..	53
Rene D. M. Bellavance, Radville	27	Douglas and Brian Ford, Elfros	33
Ronald L. Belsher, Rockglen	41	Wayne P. Ford, Humboldt	36
Brian Berger, Mendham	29	Robert S. Forman, Spring Valley ..	44
Glenn A. Bergum, Torquay	40	Delmer D. Forzley, McCord	42
Keith W. Biesenthal, Windthorst ..	55	Jim A. Frape, Moosomin	45
Franklin A. Blandin, St. Brieux	50	H. Barry Frey, Cavell	58
William H. Block, Shellbrook	51	Joe Friedt, Alsask	48
Stanley Bold, Marcellin	51		
Wayne D. Bonderoff, Arelee	50	"G"	
Delmar J. Boyne, Biggar	34	Jim N. Garinger, Brooksby	50
Marilyn C. Bradley, Milestone	30	Leonard A. Gartner, Primate	58
Aime G. Brassard, Debden	37	Beverley J. Gentner, Carrot River ..	59
Donald C. Brooks, Dummer	44	Larry J. Gerlinsky, Kerrobert	35
Larry P. Brown, Bateman	55	Oneil Gervais, Alida	40
Wayne N. Brown, Rutland	35	James J. Gettis, Semans	33
Angela M. A. Bruch, Killaly	45	Bonny Lynne Gibbons, Gillespie ..	30
"C"		Ronald and David Giesbrecht, Wymark	29
James A. Cairns, Langbank	31	Richard B. Girard, Eastend	28
Larry P. Calcraft, Indian Head	44	Edward E. Gintaut, Luseland	58
David A. Calvin, Hazenmore	42	Douglas Glazer, Esterhazy	56
Russell K. Carleton, Orkney	28	Nora M. Goodwin, Eatonville	58
Edward M. Ceslak, Perigord	37	Garth R. Graham, Stoughton	40
Donald A. Chadney, Springside	46	Douglas R. Gray, Indian Head 11, ..	55
Peter G. Christie, Moosomin	30	Melvin J. Greenwood, Coronach	27
Mac Chubak, Yellow Creek	51	Barry A. Gromniski, Sturgis	46
Daryl M. P. Chvala, N. Battleford ..	52	Diane E. M. Gryschuk, Elstow	59
John M. Clair, Radisson	52	O. Glen Gunningham, Chamberlain ..	47
Ronald E. Corneil, Stonehenge	27		
A. Garry Cote, Delmas	35	"H"	
Iris K. Cowell, Mullingar	39	David W. Hale, Lemsford	29
Clifford A. Crickett, Bickleigh	48	Lorne F. Hall, Wynyard	33
D. Lee G. Crowley, Lawson	47	Donald A. Hanberg, Melfort	59
Brian G. Cuthbert, Mossbank	29	Aileen M. Handyside, New Osgoode ..	51
		George P. Harrison, Jr., Hardy	27
		Donald M. Hartlin, Mair	56

<i>Name</i>	<i>Page</i>
Murray J. Paul, Vesper	43
Dierdre A. Paulson, Hodgeville	29
Vernon L. Penrod, Lampman	53
Marlene K. Peters, Linacre	43
Andy G. Pezderic, Asquith	50
Gerald Piche, Harptree	41
Allen W. Pieper, Simpson	48
Wilmer Pierce, Tisdale	51
Harvey N. Popp, MacNutt	31
Gordon J. Poppy, Shaunavon	54
Bruce F. Porter, Carnduff	26
Leslie H. Potter, Biggar	49
Allan D. Pugh, Rose Valley	50

"R"

Ray R. Rabaey, Shaunavon	42
Brian H. Raffey, Whitewood	56
Andy M. Rahn, Danbury	32
Diane K. Rathgeber, Fenwood	56
Wm. C. Rayner, Penzance	33
Terry W. J. Reavie, Arborfield	50
Charles E. Redpath, Gainsborough	53, 60
Ted J. Regier, Laird	37
Ambrose A. Reschny, Evesham	49
Garry Resvick, Aneroid	28
Douglas G. Riecken, Girvin	34
Barry J. Robinson, Lone Rock	49
Eunice M. Rosaasen, Preeceville ..	32
Joseph R. C. Rothery, Paradise Hill	60
Bruce F. Rouse, Donavon	57
Albert W. Ruckaber, Midale	9, 26
Mike Rudnicki, Smeaton	38
Sylvia Rusnak, Insinger	32

"S"

Richard F. Sadlemyer, Mossbank ..	43
Lester O. Sandaker, Archerwill ..	36
Allan W. Sandau, Maple Creek	42
Gary and Merle Sanford, Loomis ..	54
Everitt & Elaine Sanville, Smiley ..	34
David J. Saville, Ravenscrag ..	11, 28
Ken Sawby, Maple Creek	54
Dale L. Schmale, Major	9, 48
Margaret T. Schick, Lorlie	44
Darrell R. Schmidt	35
Gordon M. Schmidt, Duval	47
James J. Schmidt, Allan	58
K. Murray Schmidt, Viceroy	27
Wm. & Edward Schnitzler, Truax ..	44
Dennis E. Schuler, Hilda, Alberta ..	29
Richard Schultz, Coleville	48
Charles R. Schwanbeck, Hanley ..	48
Douglas Seidlitz, Richardson	30
Richard F. Selch, Kuroki	50
Myron A. Sereda, West Bend	47
Lorne J. Sheppard, Demaine	47
Ian K. Shirley, Climax	42

<i>Name</i>	<i>Page</i>
Melvin J. Shortland, Briercrest	30
Erwin J. Sieben, Salvador	49
Joseph M. Sikorski, Alvena	37
Everett M. Smart, Hazelcliffe	45
Jim J. Schmidt, Allan	58
Harry J. Smith, Govan	32
Eugene Sobchuk, Lang	44
Henry Sperlie, Reliance	54
George F. Staffen, Nipawin	37
Larry H. Stahl, Langham	36
Marshall R. Stamm, Glenavon	55
Robert H. Staple, Sceptre	54
Arden H. Start, Lestock	46
Glen E. Steffen, Ordale	51
R. Eddie Stene, Shellbrook	59
Lorance C. Stephens, Wiseton	57
Owen G. Stephenson, Sanctuary ..	34
Keith E. Stolhandske, Swift Current	55
Michael F. Summerfeldt, Dundurn ..	36
Earl W. Switenky, MacDowall	37

"T"

Bennie D. Tabin, Invermay	46
C. Terrance Townley-Smith, Lashburn	52
David A. Tinant, Muenster	36
Adam L. Tomaschefski, Odessa	30
James R. F. Tomkins, Saltcoats ..	45
Ken A. Tuplin, Maidstone	60
Donald R. Tycholiz, Meath Park ..	38
Ronald B. Tycholiz, Meath Park ..	51

"U"

"V"

Gregory L. Van Loosen, Ernfold ..	44
-----------------------------------	----

"W"

N. Jack Walker, Greenan	57
Howard L. Wallace, Wilkie	35
John B. Warrington, Mervin	38
James F. Webb, Amulet	54
Ken L. Webster, Elbow	47
Quentin A. Weinbender, Burgis	32
Carol L. Weisbrod, Disley	30
Jerome F. Wernicke, Cadillac	54
Teddy Wesson, Maidstone	52
Conrad D. Wiens, Dalmeny	49
Ronald E. Wilhelm, Benson	26
David L. Williams, LacVert	59
Orland H. Wills, Eastend	42
W. Norman Woodward, Redvers ..	27

"Z"

Clifford A. Zabolotney, Kayville ..	54
Myles J. Zawislak, Amsterdam	46
Ivan B. Ziegler, Manor	40, 60
Marvin C. Zollner, Golden Prairie ..	43

